WEBVTT

NOTE duration:"00:47:44"

NOTE recognizability:0.470

NOTE language:en-us

NOTE Confidence: 0.42032254

00:00:00.000 --> 00:00:03.514 We've got, let's see, we are recording,

NOTE Confidence: 0.42032254

00:00:03.520 --> 00:00:06.736 I see Catherine on here Dungen, great.

NOTE Confidence: 0.42032254

00:00:06.736 --> 00:00:08.992 And so again we tend to

NOTE Confidence: 0.42032254

00:00:08.992 --> 00:00:11.040 kind of filter in slowly.

NOTE Confidence: 0.42032254

00:00:11.040 --> 00:00:14.592 So wanted to introduce everybody to

NOTE Confidence: 0.42032254

00:00:14.592 --> 00:00:20.015 one of the members of our education

NOTE Confidence: 0.42032254

00:00:20.015 --> 00:00:26.012 leadership in the school. You know,

NOTE Confidence: 0.42032254

00:00:26.012 --> 00:00:32.160 Felon and I I practice this very often.

NOTE Confidence: 0.42032254

00:00:32.160 --> 00:00:36.380 Wish a second wish a Sacre, am I?

NOTE Confidence: 0.42032254

00:00:36.380 --> 00:00:37.400 Hopefully there.

NOTE Confidence: 0.27417928

00:00:38.400 --> 00:00:39.520 Benita, you're putting so

NOTE Confidence: 0.27417928

00:00:39.520 --> 00:00:40.640 much pressure on yourself.

NOTE Confidence: 0.27417928

00:00:40.640 --> 00:00:42.188 I'm happy to finish my introduction

NOTE Confidence: 0.27417928

00:00:42.188 --> 00:00:43.680 as well and get started.

NOTE Confidence: 0.27417928

00:00:43.680 --> 00:00:45.080 I'm excited to be here,

NOTE Confidence: 0.27417928

00:00:45.800 --> 00:00:47.720 but I'm actually going to give a little

NOTE Confidence: 0.27417928

00:00:47.720 --> 00:00:49.554 bit more than introductions here.

NOTE Confidence: 0.27417928

00:00:49.554 --> 00:00:53.100 And so Dylan got his MD from the University

NOTE Confidence: 0.27417928

00:00:53.182 --> 00:00:56.638 University of Rochester School of Medicine.

NOTE Confidence: 0.27417928

00:00:56.640 --> 00:01:00.154 He did residency training at our at

NOTE Confidence: 0.27417928

00:01:00.154 --> 00:01:03.400 Yale's primary care residency program.

NOTE Confidence: 0.27417928

00:01:03.400 --> 00:01:06.326 And then Phelan did a general internal

NOTE Confidence: 0.27417928

00:01:06.326 --> 00:01:08.013 medicine fellowship in medical

NOTE Confidence: 0.27417928

00:01:08.013 --> 00:01:10.877 education at Yale and then also got his

NOTE Confidence: 0.24921735

00:01:13.040 --> 00:01:18.200 MEHSMED in our institution.

NOTE Confidence: 0.24921735

00:01:18.200 --> 00:01:21.800 2018, he joined the academic

NOTE Confidence: 0.24921735

00:01:21.800 --> 00:01:25.128 hospitalist program in Yale's

NOTE Confidence: 0.24921735

00:01:25.128 --> 00:01:28.417 General Internal Medicine program.

NOTE Confidence: 0.24921735

00:01:28.417 --> 00:01:31.159 He's very active in medical education.

NOTE Confidence: 0.24921735

00:01:31.160 --> 00:01:33.260 He's the director of Clinical Reasoning

NOTE Confidence: 0.24921735

00:01:33.260 --> 00:01:35.680 at the Teaching and Learning Center.

NOTE Confidence: 0.24921735

00:01:35.680 --> 00:01:38.205 He's an associate for Clinical

NOTE Confidence: 0.24921735

00:01:38.205 --> 00:01:39.720 Reasoning Educator Development,

NOTE Confidence: 0.24921735

00:01:39.720 --> 00:01:42.920 And so he provides consultations,

NOTE Confidence: 0.24921735

00:01:42.920 --> 00:01:45.608 workshops, and scholarship related

NOTE Confidence: 0.24921735

00:01:45.608 --> 00:01:48.140 to teaching clinical reasoning.

NOTE Confidence: 0.24921735

00:01:48.140 --> 00:01:50.620 And his research interests

NOTE Confidence: 0.24921735

00:01:50.620 --> 00:01:52.480 include clinical reasoning,

NOTE Confidence: 0.24921735

00:01:52.480 --> 00:01:55.152 diagnostic error with publications

NOTE Confidence: 0.24921735

00:01:55.152 --> 00:01:57.156 and academic medicine,

NOTE Confidence: 0.24921735

00:01:57.160 --> 00:01:58.066 medical Teacher,

NOTE Confidence: 0.24921735

00:01:58.066 --> 00:02:01.237 and the Journal of General Internal Medicine.

NOTE Confidence: 0.24921735

00:02:01.240 --> 00:02:03.320 And so with that introduction,

NOTE Confidence: 0.7261014

00:02:05.520 --> 00:02:07.400 all yours. Awesome.

NOTE Confidence: 0.7261014

00:02:07.400 --> 00:02:09.200 Thank you so much Pernina,

NOTE Confidence: 0.5141208

00:02:09.200 --> 00:02:11.680 and it's great having all of y'all here.

NOTE Confidence: 0.5141208

00:02:11.680 --> 00:02:14.837 I know that you are in between

NOTE Confidence: 0.5141208

00:02:14.840 --> 00:02:17.600 things often times with lunch,

NOTE Confidence: 0.5141208

00:02:17.600 --> 00:02:19.315 so feel free to eat and chat.

NOTE Confidence: 0.5141208

00:02:19.320 --> 00:02:21.642 But I will say part of my one of

NOTE Confidence: 0.5141208

00:02:21.642 --> 00:02:24.127 my favorite parts of these sessions

NOTE Confidence: 0.5141208

00:02:24.127 --> 00:02:26.160 is just the conversations we can

NOTE Confidence: 0.5141208

00:02:26.160 --> 00:02:28.160 have and learning from each other.

NOTE Confidence: 0.5141208

00:02:28.160 --> 00:02:30.100 And especially in your experience

NOTE Confidence: 0.5141208

00:02:30.100 --> 00:02:32.040 'cause I give these workshops

NOTE Confidence: 0.5141208

00:02:32.111 --> 00:02:33.839 to different departments where

NOTE Confidence: 0.5141208

00:02:33.839 --> 00:02:35.999 obviously it's not my expertise,

NOTE Confidence: 0.5141208

00:02:36.000 --> 00:02:38.676 but yeah, we're going to talk

NOTE Confidence: 0.5141208

00:02:38.676 --> 00:02:40.460 about strategies for evaluating

NOTE Confidence: 0.5141208

00:02:40.538 --> 00:02:42.878 and teaching clinical reasoning.

NOTE Confidence: 0.5141208

00:02:42.880 --> 00:02:46.720 I. So for the CME credit,

NOTE Confidence: 0.5141208

00:02:46.720 --> 00:02:47.720 make sure to text

NOTE Confidence: 0.40580356

00:02:50.000 --> 00:02:55.910 42047 to the Yale CME number and that'll

NOTE Confidence: 0.40580356

00:02:55.910 --> 00:02:57.520 be put in the chat again. Again, that's

NOTE Confidence: 0.40580356

00:02:59.560 --> 00:03:03.920 42047. Just a quick disclosure for me.

NOTE Confidence: 0.40580356

00:03:03.920 --> 00:03:06.488 So I am a consultant for the National

NOTE Confidence: 0.40580356

00:03:06.488 --> 00:03:09.441 Board of Medical Examiners around like

NOTE Confidence: 0.40580356

00:03:09.441 --> 00:03:10.990 developing assessments for management,

NOTE Confidence: 0.40580356

00:03:10.990 --> 00:03:13.300 reasoning, an area of my research and

NOTE Confidence: 0.40580356

00:03:13.351 --> 00:03:15.276 something we'll touch on a little bit.

NOTE Confidence: 0.40580356

00:03:15.280 --> 00:03:18.964 But just for your note, So what are

NOTE Confidence: 0.40580356

00:03:18.964 --> 00:03:20.840 we going to be talking about today?

NOTE Confidence: 0.40580356

00:03:20.840 --> 00:03:22.772 3 broad aims for our workshops

NOTE Confidence: 0.40580356

00:03:22.772 --> 00:03:25.090 that I usually talk about, One,

NOTE Confidence: 0.40580356

00:03:25.090 --> 00:03:27.940 why clinical reasoning matters and

NOTE Confidence: 0.40580356

00:03:27.940 --> 00:03:30.492 some broad information terms around it,

NOTE Confidence: 0.40580356

00:03:30.492 --> 00:03:32.610 2 how do we assess clinical

NOTE Confidence: 0.40580356

00:03:32.681 --> 00:03:34.636 reason in the clinical setting.

NOTE Confidence: 0.40580356

00:03:34.640 --> 00:03:35.644 You know, it's interesting.

NOTE Confidence: 0.40580356

00:03:35.644 --> 00:03:37.865 I've been giving a lot of workshops with

NOTE Confidence: 0.40580356

00:03:37.865 --> 00:03:39.640 colleagues across the country for this.

NOTE Confidence: 0.40580356

00:03:39.640 --> 00:03:42.340 I always like to pair assessment

NOTE Confidence: 0.40580356

00:03:42.340 --> 00:03:44.492 before teaching just because,

NOTE Confidence: 0.40580356

00:03:44.492 --> 00:03:46.996 like diagnosing the learner,

NOTE Confidence: 0.40580356

00:03:47.000 --> 00:03:47.753 no pun intended,

NOTE Confidence: 0.40580356

00:03:47.753 --> 00:03:49.999 can be so helpful for deciding what to teach.

NOTE Confidence: 0.40580356

00:03:50.000 --> 00:03:51.952 Because I know a lot of people don't

NOTE Confidence: 0.40580356

00:03:51.952 --> 00:03:53.681 necessarily have a lot of time when you

NOTE Confidence: 0.40580356

00:03:53.681 --> 00:03:55.230 are in your clinical settings with all

NOTE Confidence: 0.40580356

00:03:55.230 --> 00:03:57.764 the patients that you have to see as well.

NOTE Confidence: 0.40580356

00:03:57.764 --> 00:04:01.300 And we'll practice with a couple role plays

NOTE Confidence: 0.40580356

00:04:01.389 --> 00:04:03.991 for both assessing and teaching strategies.

NOTE Confidence: 0.40580356

00:04:03.991 --> 00:04:06.490 And I'd love to hear and encourage

NOTE Confidence: 0.40580356

00:04:06.556 --> 00:04:08.924 you to share what you're thinking

NOTE Confidence: 0.40580356

00:04:08.924 --> 00:04:11.429 about for these hypothetical learners

NOTE Confidence: 0.40580356

00:04:11.429 --> 00:04:13.280 in these situations.

NOTE Confidence: 0.40580356

00:04:13.280 --> 00:04:14.905 So let's start talking about

NOTE Confidence: 0.40580356

00:04:14.905 --> 00:04:16.140 clinical reasoning, epidemiology,

NOTE Confidence: 0.40580356

00:04:16.140 --> 00:04:17.880 terminology, and theory.

NOTE Confidence: 0.40580356

00:04:17.880 --> 00:04:21.360 So why does clinical reasoning matter?

NOTE Confidence: 0.40580356

00:04:21.360 --> 00:04:22.935 So we've been talking about

NOTE Confidence: 0.40580356

00:04:22.935 --> 00:04:24.358 clinical reasoning for decades.

NOTE Confidence: 0.40580356

00:04:24.358 --> 00:04:26.748 The literature becomes like pretty

NOTE Confidence: 0.40580356

00:04:26.748 --> 00:04:29.758 robust as of like 40 years ago.

NOTE Confidence: 0.40580356

00:04:29.760 --> 00:04:32.288 But what really started to pick up steam

NOTE Confidence: 0.40580356

00:04:32.288 --> 00:04:34.700 and interest around the topic is the

NOTE Confidence: 0.40580356

00:04:34.700 --> 00:04:36.480 National Academy of Medicine report

NOTE Confidence: 0.40580356

00:04:36.480 --> 00:04:38.080 Improving Diagnosis in healthcare,

NOTE Confidence: 0.40580356

00:04:38.080 --> 00:04:41.195 which came out in 2015 and 16.

NOTE Confidence: 0.40580356

00:04:41.200 --> 00:04:42.760 Then in this report it summarized

NOTE Confidence: 0.40580356

00:04:42.760 --> 00:04:43.280 the literature.

NOTE Confidence: 0.40580356

00:04:43.280 --> 00:04:45.920 The diagnostic errors happen a lot,

NOTE Confidence: 0.40580356

00:04:45.920 --> 00:04:48.725 anywhere from 10 to 15% of the counters

NOTE Confidence: 0.40580356

00:04:48.725 --> 00:04:50.200 in the more cognitive specialties.

NOTE Confidence: 0.40580356

00:04:50.200 --> 00:04:52.792 So medicine, internal medicine,

NOTE Confidence: 0.40580356

00:04:52.792 --> 00:04:54.228 Pediatrics, emergency medicine,

NOTE Confidence: 0.40580356

00:04:54.228 --> 00:04:56.986 maybe less so in some of the

NOTE Confidence: 0.40580356

00:04:56.986 --> 00:04:58.320 perceptual specialities,

NOTE Confidence: 0.40580356

00:04:58.320 --> 00:05:00.438 something like a radiology and pathology.

NOTE Confidence: 0.40580356

00:05:00.440 --> 00:05:02.800 And these have been consistently

NOTE Confidence: 0.40580356

00:05:02.800 --> 00:05:06.160 shown across various forms of study.

NOTE Confidence: 0.40580356

00:05:06.160 --> 00:05:07.888 Chart review being the most common

NOTE Confidence: 0.40580356

00:05:07.888 --> 00:05:10.048 types of study and they can have

NOTE Confidence: 0.40580356

00:05:10.048 --> 00:05:10.999 a significant impact.

NOTE Confidence: 0.40580356

00:05:11.000 --> 00:05:14.220 Various back in the envelope mass have

NOTE Confidence: 0.40580356

00:05:14.220 --> 00:05:16.718 used numbers estimating that it could.

NOTE Confidence: 0.40580356

00:05:16.720 --> 00:05:19.004 The diagnostic errors happened

NOTE Confidence: 0.40580356

00:05:19.004 --> 00:05:20.717 to literally everyone.

NOTE Confidence: 0.40580356

00:05:20.720 --> 00:05:21.188 The mortality,

NOTE Confidence: 0.40580356

00:05:21.188 --> 00:05:22.592 all the numbers depending on how

NOTE Confidence: 0.40580356

00:05:22.592 --> 00:05:23.828 you want to define diagnostic

NOTE Confidence: 0.40580356

00:05:23.828 --> 00:05:25.274 errors and the harm they cause,

NOTE Confidence: 0.40580356

00:05:25.280 --> 00:05:29.200 can go up and down from that 40 to 80,000

NOTE Confidence: 0.40580356

00:05:29.200 --> 00:05:32.200 number yearly in the US that I mentioned.

NOTE Confidence: 0.40580356

00:05:32.200 --> 00:05:34.396 And what makes clinical reasoning so

NOTE Confidence: 0.40580356

00:05:34.396 --> 00:05:36.539 important in this process is that

NOTE Confidence: 0.40580356

00:05:36.539 --> 00:05:38.381 when we have looked at diagnostic

NOTE Confidence: 0.40580356

00:05:38.381 --> 00:05:40.582 errors and I was actually a part of

NOTE Confidence: 0.40580356

00:05:40.582 --> 00:05:43.120 one of these chart review studies

NOTE Confidence: 0.40580356

00:05:43.120 --> 00:05:46.618 affiliated with UCSF here and about

NOTE Confidence: 0.40580356

00:05:46.618 --> 00:05:49.460 70% of them have been affiliated to

NOTE Confidence: 0.40580356

00:05:49.550 --> 00:05:52.560 be cognitive in some form or another,

NOTE Confidence: 0.40580356

00:05:52.560 --> 00:05:54.940 which is why we like to teach

NOTE Confidence: 0.40580356

00:05:54.940 --> 00:05:55.960 about clinical reasoning.

NOTE Confidence: 0.40580356

00:05:55.960 --> 00:05:56.320 Now,

NOTE Confidence: 0.40580356

00:05:56.320 --> 00:05:57.760 clinical reasoning can be

NOTE Confidence: 0.40580356

00:05:57.760 --> 00:05:59.560 defined in many different ways,

NOTE Confidence: 0.40580356

00:05:59.560 --> 00:06:02.180 ranging from broadly problem

NOTE Confidence: 0.40580356

00:06:02.180 --> 00:06:04.800 solving to critical thinking,

NOTE Confidence: 0.40580356

00:06:04.800 --> 00:06:06.756 sometimes more gestalt,

NOTE Confidence: 0.40580356

00:06:06.756 --> 00:06:09.364 like this learner's judgement

NOTE Confidence: 0.40580356

00:06:09.364 --> 00:06:12.320 that I'm observing right now,

NOTE Confidence: 0.40580356

00:06:12.320 --> 00:06:14.520 but the way I like to define it,

NOTE Confidence: 0.50102544

00:06:14.520 --> 00:06:16.998 and it's not particularly the new definition.

NOTE Confidence: 0.50102544

00:06:17.000 --> 00:06:18.480 This is from Kevin Eva,

NOTE Confidence: 0.50102544

00:06:18.480 --> 00:06:20.280 the editor of Medical Education,

NOTE Confidence: 0.50102544

00:06:20.280 --> 00:06:23.360 defined it as the ability to sort

NOTE Confidence: 0.50102544

00:06:23.360 --> 00:06:26.104 through a cluster of features presented

NOTE Confidence: 0.50102544

00:06:26.104 --> 00:06:29.176 by a patient and the sign a diagnostic

NOTE Confidence: 0.50102544

00:06:29.176 --> 00:06:31.450 label with the development of

NOTE Confidence: 0.50102544

00:06:31.450 --> 00:06:35.200 appropriate treatment as our end goal.

NOTE Confidence: 0.50102544

00:06:35.200 --> 00:06:36.910 Now when it comes to clinical

NOTE Confidence: 0.50102544

00:06:36.910 --> 00:06:37.480 reasoning theories,

NOTE Confidence: 0.50102544

00:06:37.480 --> 00:06:38.600 there are so many frameworks

NOTE Confidence: 0.50102544

00:06:38.600 --> 00:06:39.720 that inform what we teach,

NOTE Confidence: 0.50102544

00:06:39.720 --> 00:06:43.480 often drawn from other sciences,

NOTE Confidence: 0.50102544

00:06:43.480 --> 00:06:46.000 particularly the cognitive science

NOTE Confidence: 0.50102544

00:06:46.000 --> 00:06:48.520 realm and cognitive psychology,

NOTE Confidence: 0.50102544

00:06:48.520 --> 00:06:50.368 to maybe even a little bit

NOTE Confidence: 0.50102544

00:06:50.368 --> 00:06:51.600 from business as well.

NOTE Confidence: 0.50102544

00:06:51.600 --> 00:06:52.974 I don't know if any of

NOTE Confidence: 0.50102544

00:06:52.974 --> 00:06:54.160 these are familiar to you,

NOTE Confidence: 0.50102544

00:06:54.160 --> 00:06:56.568 but it's just so I can give

NOTE Confidence: 0.50102544

00:06:56.568 --> 00:06:58.320 a broad strokes on them.

NOTE Confidence: 0.50102544

00:06:58.320 --> 00:06:59.715 The deliberate practice,

NOTE Confidence: 0.50102544

00:06:59.715 --> 00:07:02.720 just the importance of doing effortful,

NOTE Confidence: 0.50102544

00:07:02.720 --> 00:07:05.440 meaningful practice with getting

NOTE Confidence: 0.50102544

00:07:05.440 --> 00:07:08.572 reps around your around clinical

NOTE Confidence: 0.50102544

00:07:08.572 --> 00:07:10.756 reasoning in different settings,

NOTE Confidence: 0.50102544

00:07:10.760 --> 00:07:11.824 knowledge organization,

NOTE Confidence: 0.50102544

00:07:11.824 --> 00:07:13.952 both frameworks and approaches

NOTE Confidence: 0.50102544

00:07:13.952 --> 00:07:17.580 to your cases and also how you

NOTE Confidence: 0.50102544

00:07:17.580 --> 00:07:19.480 store that information yourself.

NOTE Confidence: 0.50102544

00:07:19.480 --> 00:07:21.892 The term illness script has become

NOTE Confidence: 0.50102544

00:07:21.892 --> 00:07:24.120 really popular and we've recently

NOTE Confidence: 0.50102544

00:07:24.120 --> 00:07:25.980 developed a framework called the

NOTE Confidence: 0.50102544

00:07:25.980 --> 00:07:28.349 management script of how you organize

NOTE Confidence: 0.50102544

00:07:28.349 --> 00:07:30.129 information about diagnosis and

NOTE Confidence: 0.50102544

00:07:30.129 --> 00:07:33.064 management options in that given patient.

NOTE Confidence: 0.50102544

00:07:33.064 --> 00:07:35.880 In addition to that,

NOTE Confidence: 0.50102544

00:07:35.880 --> 00:07:37.965 sorry about quick Trigger on

NOTE Confidence: 0.50102544

00:07:37.965 --> 00:07:39.943 my mouse dual process theory,

NOTE Confidence: 0.50102544

00:07:39.943 --> 00:07:42.610 the idea of thinking fast and slow

NOTE Confidence: 0.50102544

00:07:42.679 --> 00:07:45.944 might be familiar to y'all so thinking fast,

NOTE Confidence: 0.50102544

00:07:45.944 --> 00:07:46.920 so system.

NOTE Confidence: 0.50102544

00:07:46.920 --> 00:07:48.915 So this is popularized by Daniel Kahneman

NOTE Confidence: 0.50102544

00:07:48.915 --> 00:07:51.197 who won actually a Nobel Prize for this work.

NOTE Confidence: 0.50102544

00:07:51.200 --> 00:07:52.424 He was actually getting

NOTE Confidence: 0.50102544

00:07:52.424 --> 00:07:53.954 economics I want to say,

NOTE Confidence: 0.50102544

00:07:53.960 --> 00:07:57.038 but system one being pattern recognition,

NOTE Confidence: 0.50102544

00:07:57.040 --> 00:07:59.600 which is what our more seasoned experts use,

NOTE Confidence: 0.50102544

00:07:59.600 --> 00:08:01.784 versus system 2 which is our

NOTE Confidence: 0.50102544

00:08:01.784 --> 00:08:02.876 more analytical thinking.

NOTE Confidence: 0.50102544

00:08:02.880 --> 00:08:05.729 But it's much more time consuming and

NOTE Confidence: 0.50102544

00:08:05.729 --> 00:08:07.753 eventually over time learners move

NOTE Confidence: 0.50102544

00:08:07.753 --> 00:08:10.315 more from System 2 to system one.

NOTE Confidence: 0.50102544

00:08:10.320 --> 00:08:11.526 And then finally,

NOTE Confidence: 0.50102544

00:08:11.526 --> 00:08:13.536 probably the biggest theory that's

NOTE Confidence: 0.50102544

00:08:13.536 --> 00:08:15.688 gaining traction in the clinical

NOTE Confidence: 0.50102544

00:08:15.688 --> 00:08:17.833 reasoning literature is around situativity.

NOTE Confidence: 0.50102544

00:08:17.840 --> 00:08:20.094 So what's going on in the environment

NOTE Confidence: 0.50102544

00:08:20.094 --> 00:08:21.482 knowing that clinical reasoning

NOTE Confidence: 0.50102544

00:08:21.482 --> 00:08:23.636 isn't just practice inside the head,

NOTE Confidence: 0.50102544

00:08:23.640 --> 00:08:26.100 that it's practice in an environment

NOTE Confidence: 0.50102544

00:08:26.100 --> 00:08:26.920 that changes,

NOTE Confidence: 0.50102544

00:08:26.920 --> 00:08:29.280 that involves many different partners,

NOTE Confidence: 0.50102544

00:08:29.280 --> 00:08:30.992 including the patients involved

NOTE Confidence: 0.50102544

00:08:30.992 --> 00:08:32.276 in their care.

NOTE Confidence: 0.50102544

00:08:32.280 --> 00:08:33.368 And they're even subcategories

NOTE Confidence: 0.50102544

00:08:33.368 --> 00:08:35.000 of this that I won't believe.

NOTE Confidence: 0.50102544

00:08:35.000 --> 00:08:38.017 But just the idea of context is

NOTE Confidence: 0.50102544

00:08:38.017 --> 00:08:39.960 important in clinical reason.

NOTE Confidence: 0.50102544

00:08:39.960 --> 00:08:42.354 So if I had to break down a cognitive

NOTE Confidence: 0.50102544

00:08:42.354 --> 00:08:44.471 model and it's really started to

NOTE Confidence: 0.50102544

00:08:44.471 --> 00:08:46.640 become more solidified over the past,

NOTE Confidence: 0.50102544

00:08:46.640 --> 00:08:50.312 I want to say like 7 to 10 years.

NOTE Confidence: 0.50102544

00:08:50.320 --> 00:08:52.511 There are 4 main steps in the

NOTE Confidence: 0.50102544

00:08:52.511 --> 00:08:54.114 clinical reasoning process that can

NOTE Confidence: 0.50102544

00:08:54.114 --> 00:08:55.920 be like ordered in different ways,

NOTE Confidence: 0.50102544

00:08:55.920 --> 00:08:59.598 but those steps are data collection.

NOTE Confidence: 0.50102544

00:08:59.600 --> 00:09:01.520 So how your learners get information,

NOTE Confidence: 0.50102544

00:09:01.520 --> 00:09:03.914 all of these will derive from the

NOTE Confidence: 0.50102544

00:09:03.920 --> 00:09:06.545 the definition that I gave a clinical

NOTE Confidence: 0.50102544

00:09:06.545 --> 00:09:08.040 reasoning problem representation.

NOTE Confidence: 0.50102544

00:09:08.040 --> 00:09:11.400 So how you synthesize that information,

NOTE Confidence: 0.50102544

00:09:11.400 --> 00:09:13.452 how do you determine signal from

NOTE Confidence: 0.50102544

00:09:13.452 --> 00:09:15.240 noise sick or not sick.

NOTE Confidence: 0.50102544

00:09:15.240 --> 00:09:17.720 We usually see that in the one liner

NOTE Confidence: 0.50102544

00:09:17.720 --> 00:09:19.597 that assessment that we think about,

NOTE Confidence: 0.50102544

00:09:19.600 --> 00:09:21.644 you know the part where we as

NOTE Confidence: 0.50102544

00:09:21.644 --> 00:09:23.149 attending is actually like perk

NOTE Confidence: 0.50102544

00:09:23.149 --> 00:09:25.116 up and listen a little bit more

NOTE Confidence: 0.50102544

00:09:25.116 --> 00:09:26.319 closely to our learner.

NOTE Confidence: 0.50102544

00:09:26.320 --> 00:09:29.200 Next prioritizing A differential diagnosis,

NOTE Confidence: 0.50102544

00:09:29.200 --> 00:09:30.685 obviously what we think of

NOTE Confidence: 0.50102544

00:09:30.685 --> 00:09:31.873 most with clinical reasoning.

NOTE Confidence: 0.9400829

00:09:31.880 --> 00:09:34.000 If I could break it down just into two steps,

NOTE Confidence: 0.9400829

00:09:34.000 --> 00:09:36.480 a little bit more, I would say one,

NOTE Confidence: 0.9400829

00:09:36.480 --> 00:09:39.360 just coming up with a list of diagnosis.

NOTE Confidence: 0.9400829

00:09:39.360 --> 00:09:42.376 This is what we usually see our more

NOTE Confidence: 0.9400829

00:09:42.376 --> 00:09:44.535 junior learner struggle with the

NOTE Confidence: 0.9400829

00:09:44.535 --> 00:09:47.193 right like your medical PA students.

NOTE Confidence: 0.9400829

00:09:47.200 --> 00:09:49.720 Whereas when you get to more senior learners,

NOTE Confidence: 0.9400829

00:09:49.720 --> 00:09:51.897 it's more about how do they decide

NOTE Confidence: 0.9400829

00:09:51.897 --> 00:09:53.920 which of those diagnosis files,

NOTE Confidence: 0.9400829

00:09:53.920 --> 00:09:56.038 those illness scripts, should they choose,

NOTE Confidence: 0.9400829

00:09:56.040 --> 00:09:59.799 which one matches more to this diagnosis.

NOTE Confidence: 0.9400829

00:09:59.800 --> 00:10:00.577 And that's where,

NOTE Confidence: 0.9400829

00:10:00.577 --> 00:10:02.390 you know they can decide on what

NOTE Confidence: 0.9400829

00:10:02.442 --> 00:10:03.837 eventually they need to do,

NOTE Confidence: 0.9400829

00:10:03.840 --> 00:10:06.199 which is the next step of management

NOTE Confidence: 0.9400829

00:10:06.199 --> 00:10:08.356 reasoning and break this down into

NOTE Confidence: 0.9400829

00:10:08.356 --> 00:10:10.040 two components, management scripts,

NOTE Confidence: 0.9400829

00:10:10.040 --> 00:10:13.880 how do you decide what your options are?

NOTE Confidence: 0.9400829

00:10:13.880 --> 00:10:14.924 And then finally,

NOTE Confidence: 0.9400829

00:10:14.924 --> 00:10:16.316 testing and treatment thresholds,

NOTE Confidence: 0.9400829

00:10:16.320 --> 00:10:18.520 whether or not to do something at all.

NOTE Confidence: 0.9400829

00:10:18.520 --> 00:10:21.238 So with those 4 broad steps,

NOTE Confidence: 0.9400829

00:10:21.240 --> 00:10:23.182 I want to think about how we assess

NOTE Confidence: 0.9400829

00:10:23.182 --> 00:10:25.474 our learners and teach our learners.

NOTE Confidence: 0.9400829

00:10:25.480 --> 00:10:27.032 But before I do,

NOTE Confidence: 0.9400829

00:10:27.032 --> 00:10:28.972 did anybody have any questions

NOTE Confidence: 0.9400829

00:10:28.972 --> 00:10:30.319 about this so far?

NOTE Confidence: 0.7698591

00:10:33.440 --> 00:10:35.696 All right. Last thing I'll just

NOTE Confidence: 0.7698591

00:10:35.696 --> 00:10:38.040 say about this is that this model,

NOTE Confidence: 0.7698591

00:10:38.040 --> 00:10:40.150 so to speak, of clinical

NOTE Confidence: 0.7698591

00:10:40.150 --> 00:10:41.838 reasoning is constantly happening.

NOTE Confidence: 0.7698591

00:10:41.840 --> 00:10:43.552 The process of clinical

NOTE Confidence: 0.7698591

00:10:43.552 --> 00:10:44.836 reasoning is iterative.

NOTE Confidence: 0.7698591

00:10:44.840 --> 00:10:46.900 And that's actually the best process, right,

NOTE Confidence: 0.7698591

00:10:46.900 --> 00:10:48.720 Because we know there's so much uncertainty.

NOTE Confidence: 0.7698591

00:10:48.720 --> 00:10:52.120 We know that there's so much new information

NOTE Confidence: 0.7698591

00:10:52.120 --> 00:10:53.436 that even as you're taking a history,

NOTE Confidence: 0.7698591

00:10:53.440 --> 00:10:55.175 you know that your differential

NOTE Confidence: 0.7698591

00:10:55.175 --> 00:10:57.273 is changing literally word to word

NOTE Confidence: 0.7698591

00:10:57.273 --> 00:10:59.079 by what our learners are saying.

NOTE Confidence: 0.7698591

00:10:59.080 --> 00:11:00.080 So with that in mind,

NOTE Confidence: 0.7698591

00:11:00.080 --> 00:11:02.678 how can we assess clinical reasoning?

NOTE Confidence: 0.7698591

00:11:02.680 --> 00:11:05.155 All right, so warm y'all up a little bit,

NOTE Confidence: 0.7698591

00:11:05.160 --> 00:11:06.318 everybody's gotten a chance to eat.

NOTE Confidence: 0.7698591

00:11:06.320 --> 00:11:09.408 This is where I asked for some audience

NOTE Confidence: 0.7698591

00:11:09.408 --> 00:11:11.000 participation, even if cameras are off.

NOTE Confidence: 0.7698591

00:11:11.000 --> 00:11:12.226 That's OK.

NOTE Confidence: 0.7698591

00:11:12.226 --> 00:11:15.760 And I was wondering for y'all,

NOTE Confidence: 0.7698591

00:11:15.760 --> 00:11:17.920 how do you identify?

NOTE Confidence: 0.7698591

00:11:17.920 --> 00:11:19.895 If your learner is struggling

NOTE Confidence: 0.7698591

00:11:19.895 --> 00:11:21.080 with clinical reasoning,

NOTE Confidence: 0.7698591

00:11:21.080 --> 00:11:22.992 feel free to put it in the chat

NOTE Confidence: 0.7698591

00:11:22.992 --> 00:11:24.638 or unmute yourself and share.

NOTE Confidence: 0.7630874

00:11:41.890 --> 00:11:43.054 know your learner struggling

NOTE Confidence: 0.7630874

00:11:43.054 --> 00:11:43.927 with clinical reason

NOTE Confidence: 0.7630874

00:11:46.530 --> 00:11:48.850 for you guys who might not have microphones,

NOTE Confidence: 0.7630874

00:11:48.850 --> 00:11:50.810 Feel free to put it in the chat too,

NOTE Confidence: 0.7630874

00:11:53.090 --> 00:11:54.630 right? Melissa said. Doesn't

NOTE Confidence: 0.7630874

00:11:54.630 --> 00:11:56.170 formulate an appropriate differential.

NOTE Confidence: 0.7630874

00:11:56.170 --> 00:11:59.928 Yeah, that's like kind of like the

NOTE Confidence: 0.7630874

00:11:59.930 --> 00:12:02.324 the the stop as far as like oh wow,

NOTE Confidence: 0.7630874

00:12:02.330 --> 00:12:03.933 like now you need to say what

20

NOTE Confidence: 0.7630874

00:12:03.933 --> 00:12:06.104 you think is going on and you're

NOTE Confidence: 0.7630874

00:12:06.104 --> 00:12:07.524 not just presenting information.

NOTE Confidence: 0.7630874

00:12:07.530 --> 00:12:08.244 Definitely. For sure.

NOTE Confidence: 0.7630874

00:12:08.244 --> 00:12:09.434 The differential is a great

NOTE Confidence: 0.7630874

00:12:09.434 --> 00:12:10.330 place to diagnose,

NOTE Confidence: 0.3103357

00:12:15.320 --> 00:12:18.358 telling you you can't even summarize that.

NOTE Confidence: 0.3103357

00:12:18.360 --> 00:12:21.237 You know, Kind of like the assessment

NOTE Confidence: 0.3103357

00:12:21.240 --> 00:12:23.744 where it's just like a whole bunch of

NOTE Confidence: 0.3103357

00:12:23.744 --> 00:12:26.800 facts kind of put together, all hodgepodge.

NOTE Confidence: 0.27672905

00:12:27.400 --> 00:12:30.404 Yes, for sure, right when they are

NOTE Confidence: 0.27672905

00:12:30.404 --> 00:12:32.024 really struggling to like collect

NOTE Confidence: 0.27672905

00:12:32.024 --> 00:12:33.929 or all that information to what

NOTE Confidence: 0.27672905

00:12:33.929 --> 00:12:35.656 what matters most, right Penina.

NOTE Confidence: 0.27672905

00:12:35.656 --> 00:12:37.000 And really determining

NOTE Confidence: 0.27672905

00:12:37.000 --> 00:12:38.792 that can be challenging.

NOTE Confidence: 0.27672905

00:12:38.800 --> 00:12:40.400 So at least for each of these steps,

NOTE Confidence: 0.27672905

00:12:40.400 --> 00:12:42.140 here are some broad ways

NOTE Confidence: 0.27672905

00:12:42.140 --> 00:12:43.880 that I understand a patient,

NOTE Confidence: 0.27672905

00:12:43.880 --> 00:12:45.325 when you're listening to our

NOTE Confidence: 0.27672905

00:12:45.325 --> 00:12:46.991 presentations that you can kind of

NOTE Confidence: 0.27672905

00:12:46.991 --> 00:12:48.390 like tune into where you might be

NOTE Confidence: 0.27672905

00:12:48.390 --> 00:12:50.038 able to teach your learners the most.

NOTE Confidence: 0.27672905

00:12:50.040 --> 00:12:53.436 So first is for data collection.

NOTE Confidence: 0.27672905

00:12:53.440 --> 00:12:55.760 The quality of the information is very good.

NOTE Confidence: 0.27672905

00:12:55.760 --> 00:12:57.578 It's not clear.

NOTE Confidence: 0.27672905

00:12:57.578 --> 00:12:59.396 It's missing information.

NOTE Confidence: 0.27672905

00:12:59.400 --> 00:13:00.200 And that's the gestalt.

NOTE Confidence: 0.27672905

00:13:00.200 --> 00:13:01.000 That's when you're like,

NOTE Confidence: 0.27672905

00:13:01.000 --> 00:13:01.648 you wasn't attending,

NOTE Confidence: 0.27672905

00:13:01.648 --> 00:13:02.780 you're like, wait, wait,

NOTE Confidence: 0.27672905

00:13:02.780 --> 00:13:04.880 what's going on with this patient?

NOTE Confidence: 0.27672905

00:13:04.880 --> 00:13:07.757 That's usually a sign that your learner

NOTE Confidence: 0.27672905

00:13:07.757 --> 00:13:09.880 hasn't gotten enough information.

NOTE Confidence: 0.27672905

00:13:09.880 --> 00:13:11.140 Next up, problem representation,

NOTE Confidence: 0.27672905

00:13:11.140 --> 00:13:12.400 like Panino was mentioning,

NOTE Confidence: 0.27672905

00:13:12.400 --> 00:13:13.880 most seen in the assessment,

NOTE Confidence: 0.27672905

00:13:13.880 --> 00:13:15.024 also in sign outs.

NOTE Confidence: 0.27672905

00:13:15.024 --> 00:13:17.341 That's a great time to figure out or

NOTE Confidence: 0.27672905

00:13:17.341 --> 00:13:18.956 in consults hearing like a learner

NOTE Confidence: 0.27672905

00:13:18.956 --> 00:13:20.301 summarize that information and they

NOTE Confidence: 0.27672905

00:13:20.301 --> 00:13:22.159 just can't put that information together.

NOTE Confidence: 0.27672905

00:13:22.160 --> 00:13:24.200 They're not including the right stuff.

NOTE Confidence: 0.27672905

00:13:24.200 --> 00:13:27.196 It's disorganized and all over the place.

NOTE Confidence: 0.27672905

00:13:27.200 --> 00:13:29.120 It doesn't really give a tempo,

NOTE Confidence: 0.27672905

00:13:29.120 --> 00:13:31.730 a timing of how the patient

NOTE Confidence: 0.27672905

00:13:31.730 --> 00:13:33.035 might be evolving,

NOTE Confidence: 0.27672905

00:13:33.040 --> 00:13:35.064 prioritizing A differential diagnosis.

NOTE Confidence: 0.27672905

00:13:35.064 --> 00:13:37.073 So obvious, like we said,

NOTE Confidence: 0.27672905

00:13:37.073 --> 00:13:39.059 either there's not enough diagnosis and

NOTE Confidence: 0.27672905

00:13:39.059 --> 00:13:41.236 they're not really in a reasonable order.

NOTE Confidence: 0.27672905

00:13:41.240 --> 00:13:43.354 And I will say this about honestly,

NOTE Confidence: 0.27672905

00:13:43.360 --> 00:13:44.600 this goes for clinical reasoning,

NOTE Confidence: 0.27672905

00:13:44.600 --> 00:13:46.640 but specifically for

NOTE Confidence: 0.27672905

00:13:46.640 --> 00:13:48.000 prioritizing differential,

NOTE Confidence: 0.27672905

00:13:48.000 --> 00:13:50.150 we're not looking for a

NOTE Confidence: 0.27672905

00:13:50.150 --> 00:13:51.440 single correct answer.

NOTE Confidence: 0.27672905

00:13:51.440 --> 00:13:52.556 There's so many analogies.

NOTE Confidence: 0.27672905

00:13:52.556 --> 00:13:54.880 I'll I'll use some related to like sports,

NOTE Confidence: 0.27672905

00:13:54.880 --> 00:13:57.280 for example, a strike zone,

NOTE Confidence: 0.27672905

00:13:57.280 --> 00:13:58.820 especially because we're like

NOTE Confidence: 0.27672905

00:13:58.820 --> 00:14:00.360 baseball season right now,

NOTE Confidence: 0.27672905

00:14:00.360 --> 00:14:01.644 but we're not expecting it to

NOTE Confidence: 0.27672905

00:14:01.644 --> 00:14:02.840 be in a single place,

NOTE Confidence: 0.27672905

00:14:02.840 --> 00:14:03.142 right.

NOTE Confidence: 0.27672905

00:14:03.142 --> 00:14:05.256 It could be around a general area

NOTE Confidence: 0.27672905

00:14:05.256 --> 00:14:07.718 for a differential for a learner's

NOTE Confidence: 0.27672905

00:14:07.718 --> 00:14:10.400 clinical reasoning to be fairly strong,

NOTE Confidence: 0.27672905

00:14:10.400 --> 00:14:13.001 but we're looking at to be for it to

NOTE Confidence: 0.27672905

00:14:13.001 --> 00:14:15.493 be somewhere around there management

NOTE Confidence: 0.27672905

00:14:15.493 --> 00:14:18.451 even more so actually in management

NOTE Confidence: 0.27672905

00:14:18.451 --> 00:14:21.610 there often isn't a right answer and

NOTE Confidence: 0.27672905

00:14:21.610 --> 00:14:24.480 the the answer changes right over time.

NOTE Confidence: 0.27672905

00:14:24.480 --> 00:14:26.256 So some signs of this can be a

NOTE Confidence: 0.27672905

00:14:26.256 --> 00:14:28.090 little bit more it can be either

NOTE Confidence: 0.27672905

00:14:28.090 --> 00:14:29.800 like very blunt and obvious right.

NOTE Confidence: 0.27672905

00:14:29.800 --> 00:14:31.848 The plan is incomplete.

NOTE Confidence: 0.27672905

00:14:31.848 --> 00:14:34.408 There's very clear evidence based

NOTE Confidence: 0.27672905

00:14:34.408 --> 00:14:36.644 guideline interventions that are not

NOTE Confidence: 0.27672905

00:14:36.644 --> 00:14:38.799 being like suggested recommended ordered.

NOTE Confidence: 0.27672905

00:14:38.800 --> 00:14:41.584 But then there are like more like faint

NOTE Confidence: 0.27672905

00:14:41.584 --> 00:14:43.767 signs that I'll notice particularly

NOTE Confidence: 0.27672905

00:14:43.767 --> 00:14:45.840 in higher stakes such situations.

NOTE Confidence: 0.27672905

00:14:45.840 --> 00:14:47.840 I attended our step down

NOTE Confidence: 0.27672905

00:14:47.840 --> 00:14:49.439 unit not infrequently,

NOTE Confidence: 0.27672905

00:14:49.440 --> 00:14:53.190 so I'll notice here some things

NOTE Confidence: 0.27672905

00:14:53.190 --> 00:14:54.976 like indecisiveness which might

NOTE Confidence: 0.27672905

00:14:54.976 --> 00:14:56.316 suggest that a learner has

NOTE Confidence: 0.27672905

00:14:56.316 --> 00:14:57.843 doesn't have really well honed

NOTE Confidence: 0.27672905

00:14:57.843 --> 00:14:59.195 testing and treatment thresholds.

NOTE Confidence: 0.27672905

00:14:59.200 --> 00:15:01.285 It's great to like have

NOTE Confidence: 0.27672905

00:15:01.285 --> 00:15:02.953 uncertainty and acknowledge that,

NOTE Confidence: 0.27672905

00:15:02.960 --> 00:15:04.552 but you got to know what you want

NOTE Confidence: 0.27672905

00:15:04.552 --> 00:15:06.380 to do with that uncertainty over

NOTE Confidence: 0.27672905

00:15:06.380 --> 00:15:07.880 testing under treatment that my

NOTE Confidence: 0.27672905

00:15:07.880 --> 00:15:09.406 high value care colleagues will

NOTE Confidence: 0.27672905

00:15:09.406 --> 00:15:11.074 certainly want me to recommend that.

NOTE Confidence: 0.27672905

00:15:11.080 --> 00:15:13.900 I include that in in management

NOTE Confidence: 0.27672905

00:15:13.900 --> 00:15:14.840 reasoning too.

NOTE Confidence: 0.27672905

00:15:14.840 --> 00:15:16.320 And there's a ton of overlap as well.

NOTE Confidence: 0.27672905

00:15:16.320 --> 00:15:17.776 There's our patient care

NOTE Confidence: 0.27672905

00:15:17.776 --> 00:15:19.596 communication aspects around the plan,

NOTE Confidence: 0.27672905

00:15:19.600 --> 00:15:21.910 but those are some general impressions

NOTE Confidence: 0.27672905

00:15:21.910 --> 00:15:24.782 of what you're looking at for when a

NOTE Confidence: 0.27672905

00:15:24.782 --> 00:15:26.678 learner might be struggling in those

NOTE Confidence: 0.93921006

00:15:26.741 --> 00:15:27.816 areas. All right,

NOTE Confidence: 0.93921006

00:15:27.816 --> 00:15:29.556 I'm gonna think about some.

NOTE Confidence: 0.93921006

00:15:29.560 --> 00:15:31.640 I'm gonna share some strategies,

NOTE Confidence: 0.93921006

00:15:31.640 --> 00:15:34.016 both generally about teaching

NOTE Confidence: 0.93921006

00:15:34.016 --> 00:15:36.192 clinical reasoning and specific

NOTE Confidence: 0.93921006

00:15:36.192 --> 00:15:37.760 with the niche strategy.

NOTE Confidence: 0.93921006

00:15:37.760 --> 00:15:40.200 But I'm gonna pause again.

NOTE Confidence: 0.93921006

00:15:40.200 --> 00:15:41.946 I'm putting myself out there to

NOTE Confidence: 0.93921006

00:15:41.946 --> 00:15:44.393 everybody to ask what are some ways that

NOTE Confidence: 0.93921006

00:15:44.393 --> 00:15:46.235 you like to teach clinical reasoning?

NOTE Confidence: 0.93921006

00:15:46.240 --> 00:15:48.024 It could be anything,

NOTE Confidence: 0.93921006

00:15:48.024 --> 00:15:50.700 a very broad open-ended when you

NOTE Confidence: 0.93921006

00:15:50.785 --> 00:15:53.755 like teaching how you like teaching.

NOTE Confidence: 0.93921006

00:15:53.760 --> 00:15:55.040 Whatever comes to mind,

NOTE Confidence: 0.31081134

00:16:11.080 --> 00:16:12.360 Richard, that you're unmuted.

NOTE Confidence: 0.31081134

00:16:12.360 --> 00:16:14.280 Did you want to say something?

NOTE Confidence: 0.31081134

00:16:14.280 --> 00:16:16.457 Yeah, I was. I mean it's more

NOTE Confidence: 0.31081134

00:16:16.457 --> 00:16:18.640 I guess relevant in cardiology,

NOTE Confidence: 0.31081134

00:16:18.640 --> 00:16:21.884 but I like to usually point them

NOTE Confidence: 0.31081134

00:16:21.884 --> 00:16:23.824 towards thinking the Physiology of

NOTE Confidence: 0.31081134

00:16:23.824 --> 00:16:26.475 what we are talking about and then

NOTE Confidence: 0.31081134

00:16:26.475 --> 00:16:28.180 have that drive towards, you know,

NOTE Confidence: 0.31081134

00:16:28.180 --> 00:16:29.556 what you're going to do for the patient.

NOTE Confidence: 0.31081134

00:16:30.400 --> 00:16:32.040 That's great. And it's Rushka,

NOTE Confidence: 0.31081134

00:16:32.040 --> 00:16:35.398 right, that I, I, I love that.

NOTE Confidence: 0.31081134

00:16:35.400 --> 00:16:38.280 And that's really good for learners,

NOTE Confidence: 0.31081134

00:16:38.280 --> 00:16:39.948 especially when they're newish

NOTE Confidence: 0.31081134

00:16:39.948 --> 00:16:42.451 to a field as well, right?

NOTE Confidence: 0.31081134

00:16:42.451 --> 00:16:43.684 Especially so your,

NOTE Confidence: 0.31081134

00:16:43.684 --> 00:16:44.917 your clerkship learners,

NOTE Confidence: 0.31081134

00:16:44.920 --> 00:16:46.474 they have that basic and science knowledge.

NOTE Confidence: 0.31081134

00:16:46.480 --> 00:16:48.510 So that's actually kind of fun and

NOTE Confidence: 0.31081134

00:16:48.510 --> 00:16:50.437 reinforcing for them to see like oh wow,

NOTE Confidence: 0.31081134

00:16:50.440 --> 00:16:52.325 like I know something or

NOTE Confidence: 0.31081134

00:16:52.325 --> 00:16:53.833 you're like early fellows.

NOTE Confidence: 0.31081134

00:16:53.840 --> 00:16:56.640 I'd imagine they're still like really wrote,

NOTE Confidence: 0.31081134

00:16:56.640 --> 00:16:58.480 you know, close to that,

NOTE Confidence: 0.31081134

00:16:58.480 --> 00:16:59.680 like that Physiology,

NOTE Confidence: 0.31081134

00:16:59.680 --> 00:17:01.680 although I imagine this specialty,

NOTE Confidence: 0.31081134

00:17:01.680 --> 00:17:03.720 you're always close to your Physiology,

NOTE Confidence: 0.31081134

00:17:03.720 --> 00:17:05.760 but tying that back that can

NOTE Confidence: 0.31081134

00:17:05.760 --> 00:17:07.120 connect it ground alertness,

NOTE Confidence: 0.31081134

00:17:07.120 --> 00:17:08.840 clinical reasoning and and almost

NOTE Confidence: 0.31081134

00:17:08.840 --> 00:17:11.488 act as a framework too for different

NOTE Confidence: 0.31081134

00:17:11.488 --> 00:17:12.802 options of possibilities, right?

NOTE Confidence: 0.31081134

00:17:12.802 --> 00:17:14.566 Like a patient might have an

NOTE Confidence: 0.31081134

00:17:14.566 --> 00:17:16.000 AKI and you can say like,

NOTE Confidence: 0.31081134

00:17:16.000 --> 00:17:17.758 OK, what are like the parts?

NOTE Confidence: 0.31081134

00:17:17.760 --> 00:17:19.230 Like let's follow like the urine

NOTE Confidence: 0.31081134

00:17:19.230 --> 00:17:21.159 all the way to like the ureters,

NOTE Confidence: 0.31081134

00:17:21.160 --> 00:17:21.460 right?

NOTE Confidence: 0.31081134

00:17:21.460 --> 00:17:21.760 Like,

NOTE Confidence: 0.31081134

00:17:21.760 --> 00:17:24.160 So what are the areas where a lesion

NOTE Confidence: 0.31081134

00:17:24.222 --> 00:17:26.118 could occur to 'cause this AKI?

NOTE Confidence: 0.5655742

00:17:40.900 --> 00:17:41.710 So using Physiology,

NOTE Confidence: 0.5655742

00:17:41.710 --> 00:17:43.330 that's a that's a great way

NOTE Confidence: 0.5655742

00:17:43.330 --> 00:17:44.978 to teach clinical reasoning.

NOTE Confidence: 0.5655742

00:17:44.980 --> 00:17:45.832 Anything else?

NOTE Confidence: 0.5655742

00:17:45.832 --> 00:17:47.536 Maybe one more strategy.

NOTE Confidence: 0.5655742

00:17:47.540 --> 00:17:48.260 I'll wait for

NOTE Confidence: 0.5655742

00:17:50.340 --> 00:17:52.500 quiet one day group, everyone

NOTE Confidence: 0.5655742

00:17:54.860 --> 00:17:57.700 or a clinic without a audio

NOTE Confidence: 0.5655742

00:18:00.020 --> 00:18:00.900 Penina. What's that? What's

NOTE Confidence: 0.5655742

00:18:00.900 --> 00:18:02.220 the strategy for you to teach?

NOTE Confidence: 0.5655742

00:18:02.260 --> 00:18:04.668 Yeah. I would just say I I

NOTE Confidence: 0.5655742

00:18:04.668 --> 00:18:07.930 feel like a four year old or a

NOTE Confidence: 0.5655742

00:18:07.930 --> 00:18:10.520 three-year old or always say why.

NOTE Confidence: 0.5655742

00:18:10.520 --> 00:18:14.390 Yeah, you know, it's like not

NOTE Confidence: 0.5655742

00:18:14.390 --> 00:18:16.560 just regurgitation, but OK,

NOTE Confidence: 0.5655742

00:18:16.560 --> 00:18:19.200 Why, why did you say that?

NOTE Confidence: 0.5655742

00:18:19.200 --> 00:18:21.500 What were your thoughts?

NOTE Confidence: 0.5655742

00:18:21.500 --> 00:18:24.632 Or else asking like the learner

NOTE Confidence: 0.5655742

00:18:24.632 --> 00:18:26.712 just didn't explain their reasoning

NOTE Confidence: 0.5655742

00:18:26.712 --> 00:18:28.600 versus just giving an answer

NOTE Confidence: 0.28574646

00:18:29.200 --> 00:18:30.304 that is amazing.

NOTE Confidence: 0.28574646

00:18:30.304 --> 00:18:32.440 And that's, are you going to be

NOTE Confidence: 0.28574646

00:18:32.440 --> 00:18:34.920 the first one that I say for Nina?

NOTE Confidence: 0.28574646

00:18:34.920 --> 00:18:37.730 So First off is just clarification, right?

NOTE Confidence: 0.28574646

00:18:37.730 --> 00:18:40.600 Like, what were you thinking behind that,

NOTE Confidence: 0.28574646

00:18:40.600 --> 00:18:42.760 right, Like because we know from

NOTE Confidence: 0.28574646

00:18:42.760 --> 00:18:44.163 multiple choice questions, right,

NOTE Confidence: 0.28574646

00:18:44.163 --> 00:18:45.778 that like an answer doesn't

NOTE Confidence: 0.28574646

00:18:45.778 --> 00:18:47.280 necessarily show what's going on.

NOTE Confidence: 0.28574646

00:18:47.280 --> 00:18:48.876 So just asking them to clarify

NOTE Confidence: 0.28574646

00:18:48.876 --> 00:18:50.031 in different ways, right?

NOTE Confidence: 0.28574646

00:18:50.031 --> 00:18:52.137 That could be like saying why

NOTE Confidence: 0.28574646

00:18:52.137 --> 00:18:54.545 watching them do an exam or watching

NOTE Confidence: 0.28574646

00:18:54.545 --> 00:18:56.304 them ask like those questions.

NOTE Confidence: 0.28574646

00:18:56.304 --> 00:18:58.160 So getting primary information

NOTE Confidence: 0.28574646

00:18:58.160 --> 00:19:00.480 arguably is the most important,

NOTE Confidence: 0.28574646

00:19:00.480 --> 00:19:02.720 though the most time consuming as well.

NOTE Confidence: 0.28574646

00:19:02.720 --> 00:19:03.872 So you know,

NOTE Confidence: 0.28574646

00:19:03.872 --> 00:19:05.792 important to note in certain

NOTE Confidence: 0.28574646

00:19:05.792 --> 00:19:06.560 situations scaffold.

NOTE Confidence: 0.28574646

00:19:06.560 --> 00:19:09.408 So this goes to what Carol was mentioning

NOTE Confidence: 0.28574646

00:19:09.408 --> 00:19:12.536 and also Urgeka to a degree as well, right?

NOTE Confidence: 0.28574646

00:19:12.536 --> 00:19:14.200 So for frameworks, frameworks,

NOTE Confidence: 0.28574646

00:19:14.200 --> 00:19:15.838 frameworks is the name of the game.

NOTE Confidence: 0.28574646

00:19:15.840 --> 00:19:17.124 In teaching clinical reasoning,

NOTE Confidence: 0.28574646

00:19:17.124 --> 00:19:20.280 we simply to go back to deliberate practice.

NOTE Confidence: 0.28574646

00:19:20.280 --> 00:19:24.080 We don't get like our 10,000 hours anymore

NOTE Confidence: 0.28574646

00:19:24.080 --> 00:19:26.852 in clinical practice to really have like

NOTE Confidence: 0.28574646

00:19:26.852 --> 00:19:29.239 exemplars for every single situation.

NOTE Confidence: 0.28574646

00:19:29.240 --> 00:19:32.032 So giving your learners ways to identify and

NOTE Confidence: 0.28574646

00:19:32.032 --> 00:19:34.640 figure out what's going on in a patient,

NOTE Confidence: 0.28574646

00:19:34.640 --> 00:19:37.160 even if they haven't seen it before,

NOTE Confidence: 0.28574646

00:19:37.160 --> 00:19:38.312 can be helpful.

NOTE Confidence: 0.28574646

00:19:38.312 --> 00:19:40.616 And so common ones are just

NOTE Confidence: 0.28574646

00:19:40.616 --> 00:19:42.838 by organ system anatomy.

NOTE Confidence: 0.28574646

00:19:42.840 --> 00:19:47.496 Some could be like processed like vascular,

NOTE Confidence: 0.28574646

00:19:47.496 --> 00:19:50.520 neoplastic, infectious, inflammatory,

NOTE Confidence: 0.28574646

00:19:50.520 --> 00:19:53.915 or even something such as simple as

NOTE Confidence: 0.28574646

00:19:53.920 --> 00:19:55.915 what's a must not misdiagnosis for this,

NOTE Confidence: 0.28574646

00:19:55.920 --> 00:19:57.396 what's common even like, you know,

NOTE Confidence: 0.28574646

00:19:57.400 --> 00:19:58.960 remove like some like data.

NOTE Confidence: 0.28574646

00:19:58.960 --> 00:20:00.960 Just thinking about this cheap

NOTE Confidence: 0.28574646

00:20:00.960 --> 00:20:03.080 concern and don't narrow too soon.

NOTE Confidence: 0.28574646

00:20:03.080 --> 00:20:05.320 Frameworks is a way to really

NOTE Confidence: 0.28574646

00:20:05.320 --> 00:20:06.920 teach clinical reasoning modeling.

NOTE Confidence: 0.28574646

00:20:06.920 --> 00:20:08.945 So this is one way I wanted to say

NOTE Confidence: 0.28574646

00:20:08.945 --> 00:20:10.880 you're allowed to do this as faculty.

NOTE Confidence: 0.28574646

00:20:10.880 --> 00:20:12.524 This is literally the main feedback

NOTE Confidence: 0.28574646

00:20:12.524 --> 00:20:14.936 that I got for my first two to three

NOTE Confidence: 0.28574646

00:20:14.936 --> 00:20:16.800 years as an attending on my emails.

NOTE Confidence: 0.28574646

00:20:16.800 --> 00:20:17.560 Doctor W,

NOTE Confidence: 0.28574646

00:20:17.560 --> 00:20:19.840 It's nice that you say that

NOTE Confidence: 0.28574646

00:20:19.840 --> 00:20:21.120 that was a reasonable plan,

NOTE Confidence: 0.28574646

00:20:21.120 --> 00:20:22.680 but we'd really want to

NOTE Confidence: 0.28574646

00:20:22.680 --> 00:20:24.240 hear what your thinking is.

NOTE Confidence: 0.28574646

00:20:24.240 --> 00:20:25.820 And so clarifying why like

NOTE Confidence: 0.28574646

00:20:25.820 --> 00:20:28.080 you wanted to make a decision,

NOTE Confidence: 0.28574646

00:20:28.080 --> 00:20:30.060 what was it about this patient

NOTE Confidence: 0.28574646

00:20:30.060 --> 00:20:31.683 or this intervention that made

NOTE Confidence: 0.28574646

00:20:31.683 --> 00:20:33.360 you want to do it or not.

NOTE Confidence: 0.28574646

00:20:33.360 --> 00:20:34.490 And that can actually be

NOTE Confidence: 0.28574646

00:20:34.490 --> 00:20:35.394 really quick as well,

NOTE Confidence: 0.28574646

00:20:35.400 --> 00:20:36.864 because Panino has mentioned that I

NOTE Confidence: 0.28574646

00:20:36.864 --> 00:20:39.248 I know a lot of y'all are in clinic

NOTE Confidence: 0.28574646

00:20:39.248 --> 00:20:40.598 and in the outpatient setting,

NOTE Confidence: 0.28574646

00:20:40.600 --> 00:20:42.364 you're like moving fast and might not

NOTE Confidence: 0.28574646

00:20:42.364 --> 00:20:44.440 have as much flexibility for teaching.

NOTE Confidence: 0.28574646

00:20:44.440 --> 00:20:48.160 So even some quick modelling can be helpful.

NOTE Confidence: 0.28574646

00:20:48.160 --> 00:20:50.464 And then this is one that I after

NOTE Confidence: 0.28574646

00:20:50.464 --> 00:20:53.051 doing a lot of these workshops with

NOTE Confidence: 0.28574646

00:20:53.051 --> 00:20:55.758 students that they asked me to put in,

NOTE Confidence: 0.28574646

00:20:55.760 --> 00:20:58.875 is helping them do some independent learning.

NOTE Confidence: 0.28574646

00:20:58.880 --> 00:21:00.100 Because you can imagine when

NOTE Confidence: 0.28574646

00:21:00.100 --> 00:21:01.320 it comes to clinical reasoning,

NOTE Confidence: 0.28574646

00:21:01.320 --> 00:21:03.574 there are so many different points of

NOTE Confidence: 0.28574646

00:21:03.574 --> 00:21:06.120 a case that learners can grow from,

NOTE Confidence: 0.28574646

00:21:06.120 --> 00:21:08.717 but that can be really overwhelming too.

NOTE Confidence: 0.28574646

00:21:08.720 --> 00:21:11.760 So specifically saying, like, hey,

NOTE Confidence: 0.28574646

00:21:11.760 --> 00:21:13.475 we saw a lot of patients today,

NOTE Confidence: 0.28574646

00:21:13.480 --> 00:21:15.552 but could you look up cystic fibrosis

NOTE Confidence: 0.28574646

00:21:15.552 --> 00:21:17.588 and make an illness script and

NOTE Confidence: 0.28574646

00:21:17.588 --> 00:21:19.374 talk about it tomorrow, right.

NOTE Confidence: 0.28574646

00:21:19.374 --> 00:21:21.712 Or could you look into the trilogy

NOTE Confidence: 0.28574646

00:21:21.712 --> 00:21:24.463 of flow and we can talk about

NOTE Confidence: 0.28574646

00:21:24.463 --> 00:21:26.473 different management options as well,

NOTE Confidence: 0.42213848

00:21:26.480 --> 00:21:29.119 right. And and make it really more.

00:21:29.120 --> 00:21:31.101 And sometimes what I'll even do is

00:21:31.101 --> 00:21:33.396 like you have no more than 10 minutes

00:21:33.396 --> 00:21:35.392 to look this up because that can

00:21:35.392 --> 00:21:37.533 often give just a sense of relief with

00:21:37.533 --> 00:21:39.237 all the things that they need to do.

00:21:39.240 --> 00:21:41.480 So anyway, those are some broad categories

00:21:41.480 --> 00:21:44.437 as you can imagine for each of those steps.

00:21:44.440 --> 00:21:46.320 There are examples for this.

00:21:46.320 --> 00:21:48.875 If I had to give data collection

00:21:48.880 --> 00:21:51.764 the biggest things that I do when

00:21:51.764 --> 00:21:53.957 I'm teaching clinical reasoning in

00:21:53.957 --> 00:21:56.597 the clinical setting on the words,

00:21:56.600 --> 00:21:57.200 for me

00:21:59.560 --> 00:22:01.800 it's tough. I don't get a chance to

00:22:01.800 --> 00:22:03.998 like observe as much as I would want to.

NOTE Confidence: 0.2584031

00:22:04.000 --> 00:22:05.620 I think that's particularly

NOTE Confidence: 0.2584031

00:22:05.620 --> 00:22:07.240 important for more junilers.

NOTE Confidence: 0.2584031

00:22:07.240 --> 00:22:10.156 But when I go back bedside,

NOTE Confidence: 0.2584031

00:22:10.160 --> 00:22:12.071 I'll try my best to like model

NOTE Confidence: 0.2584031

00:22:12.071 --> 00:22:13.400 some specific maneuvers for them,

NOTE Confidence: 0.2584031

00:22:13.400 --> 00:22:16.252 spelled NEUVERS, missing any there.

NOTE Confidence: 0.2584031

00:22:16.252 --> 00:22:18.190 But also I might provide some

NOTE Confidence: 0.2584031

00:22:18.247 --> 00:22:19.720 like additional resources.

NOTE Confidence: 0.2584031

00:22:19.720 --> 00:22:20.800 There are great ones.

NOTE Confidence: 0.2584031

00:22:20.800 --> 00:22:22.680 The Stanford 25 is an excellent one.

NOTE Confidence: 0.2584031

00:22:22.680 --> 00:22:24.430 Rational Clinical Examiner is another

NOTE Confidence: 0.2584031

00:22:24.430 --> 00:22:27.262 one which also I think has a few really

NOTE Confidence: 0.2584031

00:22:27.262 --> 00:22:29.679 nice PEDs files as well one on appendices.

NOTE Confidence: 0.2584031

00:22:29.680 --> 00:22:31.440 This particularly comes to

NOTE Confidence: 0.2584031

00:22:31.440 --> 00:22:34.598 mind for teaching strategies.

NOTE Confidence: 0.2584031

00:22:34.600 --> 00:22:37.680 I was around problem representation.

NOTE Confidence: 0.2584031

00:22:37.680 --> 00:22:41.278 So broad categories of like when you're,

NOTE Confidence: 0.2584031

00:22:41.280 --> 00:22:43.394 when you're trying to help your learner

NOTE Confidence: 0.2584031

00:22:43.394 --> 00:22:45.357 distill what's going on with the patient,

NOTE Confidence: 0.2584031

00:22:45.360 --> 00:22:48.430 just asking them who is the patient, again,

NOTE Confidence: 0.2584031

00:22:48.430 --> 00:22:50.880 what matters most about who they are,

NOTE Confidence: 0.2584031

00:22:50.880 --> 00:22:51.882 their comorbidities,

NOTE Confidence: 0.2584031

00:22:51.882 --> 00:22:53.886 their risk factors epidemiologically

NOTE Confidence: 0.2584031

00:22:53.886 --> 00:22:56.160 and what is going on.

NOTE Confidence: 0.2584031

00:22:56.160 --> 00:22:58.160 Focusing on that chief concern,

NOTE Confidence: 0.2584031

00:22:58.160 --> 00:23:00.764 the time course and the two to

NOTE Confidence: 0.2584031

00:23:00.764 --> 00:23:03.586 three symptoms that really help you

NOTE Confidence: 0.2584031

00:23:03.586 --> 00:23:05.754 narrow your differential diagnosis.

NOTE Confidence: 0.2584031

00:23:05.760 --> 00:23:08.668 One thing I will say is it can be

NOTE Confidence: 0.2584031

00:23:08.668 --> 00:23:09.853 helpful to provide your learners

NOTE Confidence: 0.2584031

00:23:09.853 --> 00:23:11.525 a template particularly for the

NOTE Confidence: 0.2584031

00:23:11.525 --> 00:23:13.245 assessment just from being around

NOTE Confidence: 0.2584031

00:23:13.245 --> 00:23:14.933 many different reports and having

NOTE Confidence: 0.2584031

00:23:14.933 --> 00:23:16.871 so many learners having to present.

NOTE Confidence: 0.2584031

00:23:16.880 --> 00:23:17.384 To me,

NOTE Confidence: 0.2584031

00:23:17.384 --> 00:23:19.148 I know it can be really overwhelming

NOTE Confidence: 0.2584031

00:23:19.148 --> 00:23:20.557 to give that one liner.

NOTE Confidence: 0.2584031

00:23:20.560 --> 00:23:22.520 And so this is just a template that we use.

NOTE Confidence: 0.2584031

00:23:22.520 --> 00:23:24.800 It's very mediciney, internal mediciney.

NOTE Confidence: 0.2584031

00:23:24.800 --> 00:23:26.858 But whatever your framework is that

NOTE Confidence: 0.2584031

00:23:26.858 --> 00:23:29.558 you want to help your learners with,

NOTE Confidence: 0.2584031

00:23:29.560 --> 00:23:31.168 just tell them.

NOTE Confidence: 0.2584031

00:23:31.168 --> 00:23:34.582 For example, I remember Jeremy Mueller,

NOTE Confidence: 0.2584031

00:23:34.582 --> 00:23:36.208 who's like one of my favorite

NOTE Confidence: 0.2584031

00:23:36.208 --> 00:23:37.160 educators here at Yale.

NOTE Confidence: 0.2584031

00:23:37.160 --> 00:23:38.760 He he's really big on.

NOTE Confidence: 0.2584031

00:23:38.760 --> 00:23:40.566 Tell me exactly what the like

NOTE Confidence: 0.2584031

00:23:40.566 --> 00:23:42.600 presentation is first and then go after.

NOTE Confidence: 0.2584031

00:23:42.600 --> 00:23:43.051 Right.

NOTE Confidence: 0.2584031

00:23:43.051 --> 00:23:43.953 So like,

NOTE Confidence: 0.2584031

00:23:43.953 --> 00:23:47.560 this is like a cute,

NOTE Confidence: 0.2584031

00:23:47.560 --> 00:23:50.248 this is acute weakness in the

NOTE Confidence: 0.2584031

00:23:50.248 --> 00:23:52.040 setting of like whatever,

NOTE Confidence: 0.2584031

00:23:52.040 --> 00:23:55.197 like symptoms and features are coming right.

NOTE Confidence: 0.2584031

00:23:55.200 --> 00:23:56.608 And that can be or this is like

NOTE Confidence: 0.2584031

00:23:56.608 --> 00:23:57.520 a mono neuropathy,

NOTE Confidence: 0.2584031

00:23:57.520 --> 00:23:58.920 polyneuropathy And having that be

NOTE Confidence: 0.2584031

00:23:58.920 --> 00:24:00.920 the lead and then going from there,

NOTE Confidence: 0.2584031

00:24:00.920 --> 00:24:02.930 just tell your learner so that

NOTE Confidence: 0.2584031

00:24:02.930 --> 00:24:04.985 they Canmore plug and chug their

NOTE Confidence: 0.2584031

00:24:04.985 --> 00:24:07.295 information as opposed to having that

NOTE Confidence: 0.2584031

00:24:07.295 --> 00:24:09.719 like germane load of figuring it out,

NOTE Confidence: 0.2584031

00:24:09.720 --> 00:24:10.352 prioritizing differential,

NOTE Confidence: 0.2584031

00:24:10.352 --> 00:24:12.880 y'all are all pros at all of these,

NOTE Confidence: 0.2584031

00:24:12.880 --> 00:24:14.480 frankly, but definitely for differential.

NOTE Confidence: 0.2584031

00:24:14.480 --> 00:24:15.800 But just so I can tell you this

NOTE Confidence: 0.2584031

00:24:15.800 --> 00:24:17.277 is what I do with these workshops,

NOTE Confidence: 0.2584031

00:24:17.280 --> 00:24:18.105 to be honest,

NOTE Confidence: 0.2584031

00:24:18.105 --> 00:24:20.030 I just like tell the like teachers

NOTE Confidence: 0.2584031

00:24:20.089 --> 00:24:22.183 what they're doing and they're like

NOTE Confidence: 0.2584031

00:24:22.183 --> 00:24:23.936 what's what tools they're already

NOTE Confidence: 0.2584031

00:24:23.936 --> 00:24:25.987 using in their toolbox so they can

NOTE Confidence: 0.2584031

00:24:25.987 --> 00:24:28.680 use them in the future more confidently.

NOTE Confidence: 0.2584031

00:24:28.680 --> 00:24:30.159 But the scaffolds,

NOTE Confidence: 0.2584031

00:24:30.159 --> 00:24:33.117 like we mentioned from Carol earlier,

NOTE Confidence: 0.2584031

00:24:33.120 --> 00:24:34.890 pneumonic schemas can be really

NOTE Confidence: 0.2584031

00:24:34.890 --> 00:24:37.164 good for increasing just the number

NOTE Confidence: 0.2584031

00:24:37.164 --> 00:24:39.119 of diagnosis that are considering.

NOTE Confidence: 0.2584031

00:24:39.120 --> 00:24:41.521 The biggest one I use when I'm

NOTE Confidence: 0.2584031

00:24:41.521 --> 00:24:43.879 on the boards is pivot points.

NOTE Confidence: 0.2584031

00:24:43.880 --> 00:24:46.528 So pivot points means what a part of

NOTE Confidence: 0.2584031

00:24:46.528 --> 00:24:49.916 the case really LED you one way or the other.

NOTE Confidence: 0.2584031

00:24:49.920 --> 00:24:52.080 That's what can be really best

NOTE Confidence: 0.2584031

00:24:52.080 --> 00:24:54.027 modelled and that can really

NOTE Confidence: 0.2584031

00:24:54.027 --> 00:24:56.607 help you discern how fleshed out

NOTE Confidence: 0.2584031

00:24:56.607 --> 00:24:57.897 your learner's illness

NOTE Confidence: 0.3937301

00:24:57.968 --> 00:25:00.380 scripts are. And for independent learning.

NOTE Confidence: 0.3937301

00:25:00.380 --> 00:25:03.678 There are a bunch of resources here as well.

NOTE Confidence: 0.3937301

00:25:03.680 --> 00:25:05.591 For example, one that I feel like

NOTE Confidence: 0.3937301

00:25:05.591 --> 00:25:07.415 there's a Pediatrics podcast I heard

NOTE Confidence: 0.3937301

00:25:07.415 --> 00:25:08.995 about recently that's really good.

NOTE Confidence: 0.3937301

00:25:09.000 --> 00:25:11.624 I think it's called the Crib Ciders as well,

NOTE Confidence: 0.3937301

00:25:11.624 --> 00:25:14.477 but a lot of fun resources to help your

NOTE Confidence: 0.3937301

00:25:14.477 --> 00:25:17.866 learners learn really easily. All right.

NOTE Confidence: 0.3937301

00:25:17.866 --> 00:25:19.598 Teaching strategies for management.

NOTE Confidence: 0.3937301

00:25:19.600 --> 00:25:21.568 Again, this is my area where

NOTE Confidence: 0.3937301

00:25:21.568 --> 00:25:23.160 I get really jazzed up.

NOTE Confidence: 0.3937301

00:25:23.160 --> 00:25:26.254 But the teaching strategies that I think

NOTE Confidence: 0.3937301

00:25:26.254 --> 00:25:29.339 of most when it comes to management

NOTE Confidence: 0.3937301

00:25:29.339 --> 00:25:31.532 is providing a management script,

NOTE Confidence: 0.3937301

00:25:31.532 --> 00:25:33.747 even if it's suggesting what

NOTE Confidence: 0.3937301

00:25:33.747 --> 00:25:36.120 general categories you can think of.

NOTE Confidence: 0.3937301

00:25:36.120 --> 00:25:38.600 So for example, like today,

NOTE Confidence: 0.3937301

00:25:38.600 --> 00:25:40.008 this morning I was rounding with my res

NOTE Confidence: 0.3937301

00:25:40.008 --> 00:25:41.596 and we were really stuck on a patient.

NOTE Confidence: 0.3937301

00:25:41.600 --> 00:25:42.236 So I was like, all right,

NOTE Confidence: 0.3937301

00:25:42.240 --> 00:25:44.118 like what else can we do?

NOTE Confidence: 0.3937301

00:25:44.120 --> 00:25:46.479 Can you think of any labs imagings,

NOTE Confidence: 0.3937301

00:25:46.480 --> 00:25:47.468 do we need help,

NOTE Confidence: 0.3937301

00:25:47.468 --> 00:25:49.800 do we need to call somebody or monitoring?

NOTE Confidence: 0.3937301

00:25:49.800 --> 00:25:52.568 Is there any way we can follow up

NOTE Confidence: 0.3937301

00:25:52.568 --> 00:25:54.145 information And just that helped us

NOTE Confidence: 0.3937301

00:25:54.145 --> 00:25:55.971 figure out what a few other interventions

NOTE Confidence: 0.3937301

00:25:55.971 --> 00:25:58.480 that we might want it to do as well.

NOTE Confidence: 0.3937301

00:25:58.480 --> 00:26:01.476 I found that's particularly helpful with more

NOTE Confidence: 0.3937301

00:26:01.480 --> 00:26:05.904 with learners on the more like student range.

NOTE Confidence: 0.3937301

00:26:05.904 --> 00:26:08.520 But even early fellows can certainly

NOTE Confidence: 0.3937301

00:26:08.598 --> 00:26:11.387 find help with that specific tier field,

NOTE Confidence: 0.3937301

00:26:11.387 --> 00:26:12.668 the threshold factors.

NOTE Confidence: 0.3937301

00:26:12.668 --> 00:26:15.667 This is when things get really nuanced

NOTE Confidence: 0.3937301

00:26:15.667 --> 00:26:18.515 about why or why not to do something.

NOTE Confidence: 0.3937301

00:26:18.520 --> 00:26:19.850 I'll really work through my

NOTE Confidence: 0.3937301

00:26:19.850 --> 00:26:20.914 learners to say like,

NOTE Confidence: 0.3937301

00:26:20.920 --> 00:26:22.636 what is it about this case,

46

NOTE Confidence: 0.3937301

00:26:22.640 --> 00:26:23.900 especially when it's tough.

NOTE Confidence: 0.3937301

00:26:23.900 --> 00:26:25.475 When there is that indecisiveness,

NOTE Confidence: 0.3937301

00:26:25.480 --> 00:26:27.478 what is it that matters most?

NOTE Confidence: 0.3937301

00:26:27.480 --> 00:26:28.957 Is it how sick this patient is

NOTE Confidence: 0.3937301

00:26:28.957 --> 00:26:30.256 that's going to determine whether

NOTE Confidence: 0.3937301

00:26:30.256 --> 00:26:31.796 or not we choose antibiotics?

NOTE Confidence: 0.3937301

00:26:31.800 --> 00:26:33.432 Is it just this patient's goals

NOTE Confidence: 0.3937301

00:26:33.432 --> 00:26:35.548 of care when we decide whether or

NOTE Confidence: 0.3937301

00:26:35.548 --> 00:26:37.480 not we want to use chemotherapy,

NOTE Confidence: 0.3937301

00:26:37.480 --> 00:26:40.294 really figuring out what is it

NOTE Confidence: 0.3937301

00:26:40.294 --> 00:26:43.123 that makes us decide one way

NOTE Confidence: 0.3937301

00:26:43.123 --> 00:26:45.679 or the other about a patient.

NOTE Confidence: 0.3937301

00:26:45.680 --> 00:26:46.765 Another thing I'll say because

NOTE Confidence: 0.3937301

00:26:46.765 --> 00:26:48.390 I see a lot of specialists on

NOTE Confidence: 0.3937301

00:26:48.390 --> 00:26:50.095 the call that can be helpful,

NOTE Confidence: 0.3937301

00:26:50.095 --> 00:26:52.075 particularly especially with learners

NOTE Confidence: 0.3937301

00:26:52.075 --> 00:26:55.062 who might not necessarily be on

NOTE Confidence: 0.3937301

00:26:55.062 --> 00:26:56.653 that rotation initially, right?

NOTE Confidence: 0.3937301

00:26:56.653 --> 00:26:58.677 Like you have a general resident on like

NOTE Confidence: 0.3937301

00:26:58.677 --> 00:27:00.834 palm consults like Penina or like you know,

NOTE Confidence: 0.3937301

00:27:00.840 --> 00:27:03.675 a student on cards consults with Ruchika.

NOTE Confidence: 0.3937301

00:27:03.680 --> 00:27:06.520 I think just saying, hey,

NOTE Confidence: 0.3937301

00:27:06.520 --> 00:27:08.560 before you start this rotation,

NOTE Confidence: 0.3937301

00:27:08.560 --> 00:27:11.020 you really need to get down

NOTE Confidence: 0.3937301

00:27:11.020 --> 00:27:14.120 at like like acute cough,

NOTE Confidence: 0.3937301

00:27:14.120 --> 00:27:14.880 right?

NOTE Confidence: 0.3937301

00:27:14.880 --> 00:27:18.280 Or you know narrow complex tachycardia

NOTE Confidence: 0.3937301

00:27:18.280 --> 00:27:21.350 come up with different things to

NOTE Confidence: 0.3937301

00:27:21.350 --> 00:27:23.746 consider at least in a plan before

NOTE Confidence: 0.3937301

00:27:23.746 --> 00:27:25.276 you even start the rotation.

NOTE Confidence: 0.3937301

00:27:25.280 --> 00:27:26.736 I still do that to some degrees

NOTE Confidence: 0.3937301

00:27:26.736 --> 00:27:28.164 before I'm on my rapid response

NOTE Confidence: 0.3937301

00:27:28.164 --> 00:27:29.914 senior before I enter the step down,

NOTE Confidence: 0.3937301

00:27:29.920 --> 00:27:30.973 I'm like alright,

NOTE Confidence: 0.3937301

00:27:30.973 --> 00:27:34.505 like what do I do in acute like hypoxemic

NOTE Confidence: 0.3937301

00:27:34.505 --> 00:27:36.880 respiratory failure or in hypernatremia.

NOTE Confidence: 0.3937301

00:27:36.880 --> 00:27:39.024 When the Ed calls me I'll like give

NOTE Confidence: 0.3937301

00:27:39.024 --> 00:27:41.238 them like some suggestions initially,

NOTE Confidence: 0.3937301

00:27:41.240 --> 00:27:43.160 so giving an initial like framework.

NOTE Confidence: 0.3937301

00:27:43.160 --> 00:27:46.000 So again it makes it more multiple choice.

NOTE Confidence: 0.3937301

00:27:46.000 --> 00:27:47.560 All right.

NOTE Confidence: 0.3937301

00:27:47.560 --> 00:27:48.960 And I have a few more cases,

NOTE Confidence: 0.3937301

00:27:48.960 --> 00:27:49.860 I've talked a bunch.

NOTE Confidence: 0.3937301

00:27:49.860 --> 00:27:51.656 I'm starting to get winded so I'm going

NOTE Confidence: 0.3937301

00:27:51.656 --> 00:27:53.240 to need your help as we go through

NOTE Confidence: 0.8106238

00:27:53.289 --> 00:27:54.904 these as well. I've tried two times,

NOTE Confidence: 0.8106238

00:27:54.904 --> 00:27:57.009 but I I think we're warmed up now

NOTE Confidence: 0.8106238

00:27:57.009 --> 00:27:58.439 to have some more participation.

NOTE Confidence: 0.8106238

00:27:58.440 --> 00:28:00.344 All right, case one, so remember we

NOTE Confidence: 0.8106238

00:28:00.344 --> 00:28:02.439 have our four steps data collection,

NOTE Confidence: 0.8106238

00:28:02.440 --> 00:28:04.080 problem representation,

NOTE Confidence: 0.8106238

00:28:04.080 --> 00:28:07.360 differential diagnosis and management.

NOTE Confidence: 0.8106238

00:28:07.360 --> 00:28:08.848 I'm actually end up with a

NOTE Confidence: 0.8106238

00:28:08.848 --> 00:28:09.840 couple abdominal pain cases.

NOTE Confidence: 0.8106238

00:28:09.840 --> 00:28:11.344 These are from clinic.

NOTE Confidence: 0.8106238

00:28:11.344 --> 00:28:14.879 But I want you all to read over this case.

NOTE Confidence: 0.8106238

00:28:14.880 --> 00:28:17.700 I'll read it as well because I know some of

NOTE Confidence: 0.8106238

00:28:17.766 --> 00:28:20.516 you all are on your phone and in the chat.

NOTE Confidence: 0.8106238

00:28:20.520 --> 00:28:24.290 I want you to tell me which one of those

NOTE Confidence: 0.8106238

00:28:24.386 --> 00:28:27.016 four steps Data problem representation,

NOTE Confidence: 0.8106238

00:28:27.016 --> 00:28:28.840 Differential and management.

NOTE Confidence: 0.8106238

00:28:28.840 --> 00:28:31.017 Where you think this learner is struggling

NOTE Confidence: 0.8106238

00:28:31.017 --> 00:28:33.043 most or where you would consider

NOTE Confidence: 0.8106238

00:28:33.043 --> 00:28:35.113 doing some teaching for this learner.

NOTE Confidence: 0.8106238

00:28:35.120 --> 00:28:36.320 All right,

NOTE Confidence: 0.8106238

00:28:36.320 --> 00:28:38.720 deep breath getting my pretending

NOTE Confidence: 0.8106238

00:28:38.720 --> 00:28:41.520 I'm a resident or student right now.

NOTE Confidence: 0.8106238

00:28:41.520 --> 00:28:42.002 All right,

NOTE Confidence: 0.8106238

00:28:42.002 --> 00:28:43.930 we have a 17 year old girl who

NOTE Confidence: 0.8106238

00:28:43.991 --> 00:28:46.378 reports A few days ago she started

NOTE Confidence: 0.8106238

00:28:46.378 --> 00:28:47.825 experiencing sharp pain localized

NOTE Confidence: 0.8106238

00:28:47.825 --> 00:28:49.635 to her left lower quadrant.

NOTE Confidence: 0.8106238

00:28:49.640 --> 00:28:51.360 The pain rates as intermittent

NOTE Confidence: 0.8106238

00:28:51.360 --> 00:28:53.080 lasts for a few minutes.

NOTE Confidence: 0.8106238

00:28:53.080 --> 00:28:54.544 She's had associated nausea,

NOTE Confidence: 0.8106238

00:28:54.544 --> 00:28:57.240 but decide denies any fever or chills.

NOTE Confidence: 0.8106238

00:28:57.240 --> 00:28:59.210 She doesn't have any past

NOTE Confidence: 0.8106238

00:28:59.210 --> 00:29:00.766 medical history of note.

NOTE Confidence: 0.8106238

00:29:00.766 --> 00:29:03.447 She's a junior in high school and

NOTE Confidence: 0.8106238

00:29:03.447 --> 00:29:05.997 she denies any substance use.

NOTE Confidence: 0.8106238

00:29:06.000 --> 00:29:08.000 Her vital signs were notable

NOTE Confidence: 0.8106238

00:29:08.000 --> 00:29:10.199 for blood pressure 116 / 82,

NOTE Confidence: 0.8106238

00:29:10.199 --> 00:29:13.480 heart rate 80, respiratory rate 18,

NOTE Confidence: 0.8106238

00:29:13.480 --> 00:29:16.340 oxygen saturation 99% on room air.

NOTE Confidence: 0.8106238

00:29:16.340 --> 00:29:19.015 When I saw her, she was uncomfortable.

NOTE Confidence: 0.8106238

00:29:19.015 --> 00:29:22.111 Heart rate was regular, lungs were clear.

NOTE Confidence: 0.8106238

00:29:22.111 --> 00:29:23.859 There is moderate tenderness

NOTE Confidence: 0.8106238

00:29:23.859 --> 00:29:26.360 in that left lower quadrant,

NOTE Confidence: 0.8106238

00:29:26.360 --> 00:29:29.284 but no guarding rigidity,

NOTE Confidence: 0.8106238

00:29:29.284 --> 00:29:32.492 no CVA tenderness and otherwise.

NOTE Confidence: 0.8106238

00:29:32.492 --> 00:29:34.516 Her exam was unremarkable.

NOTE Confidence: 0.8106238

00:29:34.520 --> 00:29:36.529 So I'd say this is a previously

NOTE Confidence: 0.8106238

00:29:36.529 --> 00:29:38.972 healthy 17 year old girl who presents

NOTE Confidence: 0.8106238

00:29:38.972 --> 00:29:40.867 with acute left lower quadrant

NOTE Confidence: 0.8106238

00:29:40.867 --> 00:29:42.801 abdominal pain associated with nausea

NOTE Confidence: 0.8106238

00:29:42.801 --> 00:29:45.039 found to be in moderate distress.

NOTE Confidence: 0.8106238

00:29:45.040 --> 00:29:47.704 Most likely this is caused by a UT I

NOTE Confidence: 0.8106238

00:29:47.704 --> 00:29:50.828 I looked at urinalysis, urine culture,

NOTE Confidence: 0.8106238

00:29:50.828 --> 00:29:53.598 CBC, and maybe start keflex.

NOTE Confidence: 0.8106238

00:29:53.600 --> 00:29:56.036 We could consider an ultrasound or CT,

NOTE Confidence: 0.8106238

00:29:56.040 --> 00:29:59.638 abdomen and pelvis if the symptoms persist,

NOTE Confidence: 0.8106238

00:29:59.640 --> 00:30:00.996 so bear with me.

NOTE Confidence: 0.8106238

00:30:00.996 --> 00:30:03.030 I'm just a humble internist trying

NOTE Confidence: 0.8106238

00:30:03.098 --> 00:30:05.158 to design cases for Pediatrics,

NOTE Confidence: 0.8106238

00:30:05.160 --> 00:30:07.986 but if you got this presentation

NOTE Confidence: 0.8106238

00:30:07.986 --> 00:30:10.800 in clinic regardless of specialty,

NOTE Confidence: 0.8106238

00:30:10.800 --> 00:30:13.356 where do you think this learner

NOTE Confidence: 0.8106238

00:30:13.356 --> 00:30:14.634 is struggling most?

NOTE Confidence: 0.8106238

00:30:14.640 --> 00:30:16.674 Again, feel free to throw it in the chat.

NOTE Confidence: 0.8106238

00:30:16.680 --> 00:30:17.920 Or I mean yourself.

NOTE Confidence: 0.51862043

00:30:23.100 --> 00:30:24.913 Also, So poor Panina doesn't have to

NOTE Confidence: 0.51862043

00:30:24.913 --> 00:30:26.778 keep answering all of the questions right

NOTE Confidence: 0.51862043

00:30:26.780 --> 00:30:28.020 now. Although fantastic educator

NOTE Confidence: 0.51862043

00:30:28.020 --> 00:30:30.420 and we would love to hear from her.

NOTE Confidence: 0.51862043

00:30:30.420 --> 00:30:32.338 Well, I'm bound to be really wrong,

NOTE Confidence: 0.51862043

00:30:32.340 --> 00:30:33.618 so I don't want to embarrass

NOTE Confidence: 0.51862043

00:30:33.740 --> 00:30:35.660 myself. Too bad.

NOTE Confidence: 0.51862043

00:30:35.660 --> 00:30:36.790 Please. That's right.

NOTE Confidence: 0.51862043

00:30:36.790 --> 00:30:38.015 Participation will be can help.

NOTE Confidence: 0.51862043

00:30:38.020 --> 00:30:39.319 Panina. That's right.

NOTE Confidence: 0.51862043

00:30:39.319 --> 00:30:42.300 And me too. I beat it.

NOTE Confidence: 0.51862043

00:30:42.300 --> 00:30:43.180 Where is this learner

NOTE Confidence: 0.51862043

00:30:43.180 --> 00:30:44.059 struggling the most?

NOTE Confidence: 0.51862043

00:30:46.140 --> 00:30:47.340 Can you go back? One slide?

NOTE Confidence: 0.51862043

00:30:47.340 --> 00:30:49.180 Just just a reminder of the

NOTE Confidence: 0.51862043

00:30:49.180 --> 00:30:50.300 four categories. Of course,

NOTE Confidence: 0.51862043

00:30:50.300 --> 00:30:52.100 Of course. There you go.

NOTE Confidence: 0.3744299

00:30:53.400 --> 00:30:55.960 Thank you. All right.

NOTE Confidence: 0.3744299

00:30:55.960 --> 00:30:58.720 Carol puts in differential diagnosis.

NOTE Confidence: 0.3744299

00:30:58.720 --> 00:31:02.120 Catherine puts in data collection.

NOTE Confidence: 0.3744299

00:31:02.120 --> 00:31:04.000 And for what it's worth,

NOTE Confidence: 0.3744299

00:31:04.000 --> 00:31:05.848 all of you know there are

NOTE Confidence: 0.3744299

00:31:05.848 --> 00:31:07.080 so many different options.

NOTE Confidence: 0.3744299

00:31:07.080 --> 00:31:08.522 You could pick any four of these

NOTE Confidence: 0.3744299

00:31:08.522 --> 00:31:10.160 steps and your learner would be like,

NOTE Confidence: 0.3744299

00:31:10.160 --> 00:31:12.520 wow, that's an amazing teacher.

NOTE Confidence: 0.3744299

00:31:12.520 --> 00:31:14.655 But if you want to get your

NOTE Confidence: 0.3744299

00:31:14.655 --> 00:31:16.400 most bang for your buck,

NOTE Confidence: 0.3744299

00:31:16.400 --> 00:31:18.836 I would agree with the chat,

NOTE Confidence: 0.3744299

00:31:18.840 --> 00:31:21.300 Catherine, Carol and Rushka about and

NOTE Confidence: 0.3744299

00:31:21.300 --> 00:31:24.448 Ada about both data collection and

NOTE Confidence: 0.3744299

00:31:24.448 --> 00:31:27.358 differential diagnosis for this case.

NOTE Confidence: 0.3744299

00:31:27.360 --> 00:31:29.358 So going back to this case,

NOTE Confidence: 0.3744299

00:31:29.360 --> 00:31:30.662 so data collection,

NOTE Confidence: 0.3744299

00:31:30.662 --> 00:31:32.398 incomplete history and physical,

NOTE Confidence: 0.3744299

00:31:32.400 --> 00:31:33.128 and there's some strategies

NOTE Confidence: 0.3744299

00:31:33.128 --> 00:31:34.360 that we could do to teach it.

NOTE Confidence: 0.3744299

00:31:34.360 --> 00:31:36.256 But again, so this patient is

NOTE Confidence: 0.3744299

00:31:36.256 --> 00:31:37.880 coming in with abdominal pain,

NOTE Confidence: 0.3744299

00:31:37.880 --> 00:31:40.066 why differential?

NOTE Confidence: 0.3744299

00:31:40.066 --> 00:31:42.460 But you know they they

NOTE Confidence: 0.3744299

00:31:42.460 --> 00:31:43.760 don't mention much about.

NOTE Confidence: 0.3744299

00:31:43.760 --> 00:31:44.532 For example,

NOTE Confidence: 0.3744299

00:31:44.532 --> 00:31:46.343 if this is a UTI,

NOTE Confidence: 0.3744299

00:31:46.343 --> 00:31:48.184 you didn't tell us you you told

NOTE Confidence: 0.3744299

00:31:48.184 --> 00:31:50.335 us that there are any fevers and

NOTE Confidence: 0.3744299

00:31:50.335 --> 00:31:52.372 chills when she's on history.

NOTE Confidence: 0.3744299

00:31:52.372 --> 00:31:54.817 But any dysuria hematuria, right?

NOTE Confidence: 0.3744299

00:31:54.817 --> 00:31:56.873 That'd be nice to know in the physical

NOTE Confidence: 0.3744299

00:31:56.873 --> 00:31:58.840 exam missing just like a temperature,

NOTE Confidence: 0.3744299

00:31:58.840 --> 00:31:59.796 that might be helpful.

NOTE Confidence: 0.3744299

00:31:59.796 --> 00:32:01.230 I'm glad you did a you

NOTE Confidence: 0.3744299

00:32:01.285 --> 00:32:02.717 checked for CPA tenderness.

NOTE Confidence: 0.3744299

00:32:02.720 --> 00:32:04.395 But just information that would

NOTE Confidence: 0.3744299

00:32:04.395 --> 00:32:06.070 be associated with that specific

NOTE Confidence: 0.3744299

00:32:06.122 --> 00:32:07.638 diagnosis and abdominal pain.

NOTE Confidence: 0.3744299

00:32:07.640 --> 00:32:09.288 There's like, you know,

NOTE Confidence: 0.3744299

00:32:09.288 --> 00:32:12.077 plenty of must not miss diagnosis as

NOTE Confidence: 0.3744299

00:32:12.077 --> 00:32:14.573 well to be including in there too, right?

NOTE Confidence: 0.3744299

00:32:14.573 --> 00:32:17.296 Some that are more like GI pathology,

NOTE Confidence: 0.3744299

00:32:17.296 --> 00:32:19.436 some that are even gynecological.

NOTE Confidence: 0.3744299

00:32:19.440 --> 00:32:21.039 Speaking of history,

NOTE Confidence: 0.3744299

00:32:21.039 --> 00:32:23.732 getting more about what is her like

NOTE Confidence: 0.3744299

00:32:23.732 --> 00:32:26.000 sexual history as well would be important.

NOTE Confidence: 0.3744299

00:32:26.000 --> 00:32:27.960 So for those different steps.

NOTE Confidence: 0.3744299

00:32:27.960 --> 00:32:29.319 So First off,

NOTE Confidence: 0.3744299

00:32:29.319 --> 00:32:30.678 for data collection,

NOTE Confidence: 0.3744299

00:32:30.680 --> 00:32:32.004 some teaching strategies that

NOTE Confidence: 0.3744299

00:32:32.004 --> 00:32:32.997 might be helpful.

NOTE Confidence: 0.3744299

00:32:33.000 --> 00:32:35.835 Kind of reinforcing what we talked about

NOTE Confidence: 0.3744299

00:32:35.835 --> 00:32:38.020 before observing their physical exam.

NOTE Confidence: 0.3744299

00:32:38.020 --> 00:32:41.040 Probably not as important in this one,

NOTE Confidence: 0.3744299

00:32:41.040 --> 00:32:43.080 but maybe doing like a hypothesis

NOTE Confidence: 0.3744299

00:32:43.080 --> 00:32:43.760 driven interview.

NOTE Confidence: 0.3744299

00:32:43.760 --> 00:32:46.916 Sometimes I'll literally stop my my,

NOTE Confidence: 0.3744299

00:32:46.920 --> 00:32:48.088 my modeling of interview.

NOTE Confidence: 0.3744299

00:32:48.088 --> 00:32:50.879 Be like now I'm gonna ask my UTI questions,

NOTE Confidence: 0.3744299

00:32:50.880 --> 00:32:53.008 now I'm gonna ask my ovarian torsion

NOTE Confidence: 0.3744299

00:32:53.008 --> 00:32:55.274 questions and it doesn't have to be

NOTE Confidence: 0.3744299

00:32:55.274 --> 00:32:56.884 that quite that prescriptive but

NOTE Confidence: 0.3744299

00:32:56.884 --> 00:32:58.929 even showing them how you would

NOTE Confidence: 0.3744299

00:32:58.929 --> 00:33:00.594 ask specific questions as well.

NOTE Confidence: 0.3744299

00:33:00.600 --> 00:33:02.880 As far as the differential diagnosis,

NOTE Confidence: 0.3744299

00:33:02.880 --> 00:33:04.160 this is obviously very limited.

NOTE Confidence: 0.3744299

00:33:04.160 --> 00:33:05.966 This is an interesting one because

NOTE Confidence: 0.3744299

00:33:05.966 --> 00:33:07.883 we don't know right what the

NOTE Confidence: 0.3744299

00:33:07.883 --> 00:33:09.503 differential diagnosis is right Like

NOTE Confidence: 0.3744299

00:33:09.503 --> 00:33:11.693 we just know what number one was

NOTE Confidence: 0.3744299

00:33:11.693 --> 00:33:13.433 but maybe this learner had other

NOTE Confidence: 0.3744299

00:33:13.440 --> 00:33:15.072 diagnosis they were considering

NOTE Confidence: 0.3744299

00:33:15.072 --> 00:33:17.112 that's when that more open-ended

NOTE Confidence: 0.3744299

00:33:17.112 --> 00:33:18.871 questioning can be really helpful

NOTE Confidence: 0.3744299

00:33:18.871 --> 00:33:20.803 like Penina was mentioning just saying

NOTE Confidence: 0.3744299

00:33:20.865 --> 00:33:22.636 like what else could be going on.

NOTE Confidence: 0.3744299

00:33:22.640 --> 00:33:23.750 No, like UTI,

NOTE Confidence: 0.3744299

00:33:23.750 --> 00:33:25.970 that's should definitely be on the

NOTE Confidence: 0.3744299

00:33:25.970 --> 00:33:27.574 differential but or even numbering

NOTE Confidence: 0.3744299

00:33:27.574 --> 00:33:29.814 like what are two or three more

NOTE Confidence: 0.3744299

00:33:29.814 --> 00:33:31.620 diagnosis that could be going on

NOTE Confidence: 0.3744299

00:33:31.620 --> 00:33:33.369 for with this patient even if

NOTE Confidence: 0.3744299

00:33:33.369 --> 00:33:34.919 you think they're less likely.

NOTE Confidence: 0.3744299

00:33:34.920 --> 00:33:37.461 I'm just so you again you know

NOTE Confidence: 0.3744299

00:33:37.461 --> 00:33:39.240 what their strike zone is.

NOTE Confidence: 0.3744299

00:33:39.240 --> 00:33:40.960 Again for frameworks they're different

NOTE Confidence: 0.3744299

00:33:40.960 --> 00:33:42.680 frameworks that you could provide.

NOTE Confidence: 0.3744299

00:33:42.680 --> 00:33:44.528 This is a way to make it like

NOTE Confidence: 0.3744299

00:33:44.528 --> 00:33:45.900 more multiple choice like I've

NOTE Confidence: 0.3744299

00:33:45.900 --> 00:33:47.036 been saying as well.

NOTE Confidence: 0.3744299

00:33:47.040 --> 00:33:48.110 So maybe they're just struggling

NOTE Confidence: 0.3744299

00:33:48.110 --> 00:33:49.760 to come up with the differential,

NOTE Confidence: 0.3744299

00:33:49.760 --> 00:33:49.902 right.

NOTE Confidence: 0.3744299

00:33:49.902 --> 00:33:51.038 You ask them what else is going on,

NOTE Confidence: 0.33648703

00:33:51.040 --> 00:33:52.702 They just stare at you blankly. OK,

NOTE Confidence: 0.33648703

00:33:52.702 --> 00:33:56.718 Can you think of any other infectious causes?

NOTE Confidence: 0.33648703

00:33:56.720 --> 00:34:01.076 Malignancy causes, vascular causes as well.

NOTE Confidence: 0.33648703

00:34:01.080 --> 00:34:02.522 And there might not be them for

NOTE Confidence: 0.33648703

00:34:02.522 --> 00:34:03.827 every category and you can be

NOTE Confidence: 0.33648703

00:34:03.827 --> 00:34:05.117 judicious about which ones you pick.

NOTE Confidence: 0.33648703

00:34:05.120 --> 00:34:07.458 But that way the learner can also

NOTE Confidence: 0.33648703

00:34:07.458 --> 00:34:09.501 feel more ownership about their

NOTE Confidence: 0.33648703

00:34:09.501 --> 00:34:10.704 clinical reasoning, right?

NOTE Confidence: 0.33648703

00:34:10.704 --> 00:34:12.112 They leave the encounter, feel like,

NOTE Confidence: 0.33648703

00:34:12.112 --> 00:34:14.160 hey, like I did like get some stuff

NOTE Confidence: 0.33648703

00:34:14.223 --> 00:34:16.392 right even though I need to work on it,

NOTE Confidence: 0.33648703

00:34:16.400 --> 00:34:18.020 which can be motivating for

NOTE Confidence: 0.33648703

00:34:18.020 --> 00:34:19.316 them in the future.

NOTE Confidence: 0.33648703

00:34:19.320 --> 00:34:20.924 So great job team.

NOTE Confidence: 0.33648703

00:34:20.924 --> 00:34:24.849 You are right on track as far as data

NOTE Confidence: 0.33648703

00:34:24.849 --> 00:34:26.988 collection and differential concerns.

NOTE Confidence: 0.33648703

00:34:26.988 --> 00:34:29.958 So for case number 2.

NOTE Confidence: 0.6194185

00:34:32.480 --> 00:34:36.000 All right, so this is a patient on the wart.

NOTE Confidence: 0.6194185

00:34:36.000 --> 00:34:38.835 So this is a 17 year old.

NOTE Confidence: 0.6194185

00:34:38.840 --> 00:34:41.264 A female with extra sickle cell

NOTE Confidence: 0.6194185

00:34:41.264 --> 00:34:42.880 disease and exchange transfusion.

NOTE Confidence: 0.6194185

00:34:42.880 --> 00:34:45.020 Twice in the past two years I had one of

NOTE Confidence: 0.6194185

00:34:45.080 --> 00:34:47.278 the Pediatrics fellows give me this case.

NOTE Confidence: 0.6194185

00:34:47.280 --> 00:34:48.720 It makes it way too complicated.

NOTE Confidence: 0.6194185

00:34:48.720 --> 00:34:50.080 I don't know what's going on in this.

NOTE Confidence: 0.6194185

00:34:50.080 --> 00:34:52.400 Anyway, 3 days of fatigue,

NOTE Confidence: 0.6194185

00:34:52.400 --> 00:34:53.892 Lightheadedness and feeling dehydrated.

NOTE Confidence: 0.6194185

00:34:53.892 --> 00:34:56.719 Now with a 2 day history of cough,

NOTE Confidence: 0.6194185

00:34:56.720 --> 00:34:58.825 nausea, vomiting and upper abdominal

NOTE Confidence: 0.6194185

00:34:58.825 --> 00:35:01.600 pain radiating to the left shoulder.

NOTE Confidence: 0.6194185

00:35:01.600 --> 00:35:04.108 She was admitted yesterday to Bridgeport

NOTE Confidence: 0.6194185

00:35:04.108 --> 00:35:06.120 with worsening abdominal shoulder pain.

NOTE Confidence: 0.6194185

00:35:06.120 --> 00:35:08.880 Refractory to Dilaudid PCA.

NOTE Confidence: 0.6194185

00:35:08.880 --> 00:35:11.640 So past medical history.

NOTE Confidence: 0.6194185

00:35:11.640 --> 00:35:12.570 Sickle cell disease.

NOTE Confidence: 0.6194185

00:35:12.570 --> 00:35:14.120 The disease with multiple crises.

NOTE Confidence: 0.6194185

00:35:14.120 --> 00:35:16.300 Baseline hemoglobin of nine Has

NOTE Confidence: 0.6194185

00:35:16.300 --> 00:35:18.480 a history of insulin resistance,

NOTE Confidence: 0.6194185

00:35:18.480 --> 00:35:20.232 had a cholecystectomy previously,

NOTE Confidence: 0.6194185

00:35:20.232 --> 00:35:21.984 Takes ibuprofen and oxycodone

NOTE Confidence: 0.6194185

00:35:21.984 --> 00:35:24.079 for pain but has not filled.

NOTE Confidence: 0.6194185

00:35:24.080 --> 00:35:27.680 Hydroxyurea and metformin smokes marijuana.

NOTE Confidence: 0.6194185

00:35:27.680 --> 00:35:30.260 Daily exam notable for a temperature

NOTE Confidence: 0.6194185

00:35:30.260 --> 00:35:32.799 of 39 four heart rate 107,

NOTE Confidence: 0.6194185

00:35:32.800 --> 00:35:35.200 blood pressure 98 / 65,

NOTE Confidence: 0.6194185

00:35:35.200 --> 00:35:37.480 respiratory over 26,

NOTE Confidence: 0.6194185

00:35:37.480 --> 00:35:40.582 oxygen saturation of 97%,

NOTE Confidence: 0.6194185

00:35:40.582 --> 00:35:45.514 General to Kipnik with mild distress

NOTE Confidence: 0.6194185

00:35:45.520 --> 00:35:48.604 and scleral conjunctural Ichteros

NOTE Confidence: 0.6194185

00:35:48.604 --> 00:35:52.040 diminished breath sounds a sinus

NOTE Confidence: 0.6194185

00:35:52.040 --> 00:35:54.280 tachycardia On cardiac exam.

NOTE Confidence: 0.6194185

00:35:54.280 --> 00:35:58.738 The abdomen was with no organomegaly

NOTE Confidence: 0.6194185

00:35:58.738 --> 00:36:00.076 but diffusely tender.

NOTE Confidence: 0.6194185

00:36:00.080 --> 00:36:02.264 I mean skin was notable for

NOTE Confidence: 0.6194185

00:36:02.264 --> 00:36:03.356 pallor and jaundice.

NOTE Confidence: 0.6194185

00:36:03.360 --> 00:36:05.952 So on labs white blood cell count was 9,

NOTE Confidence: 0.6194185

00:36:05.960 --> 00:36:07.452 hemoglobin 5.7,

NOTE Confidence: 0.6194185

00:36:07.452 --> 00:36:10.436 platelet 77 and neutrophil

NOTE Confidence: 0.6194185

00:36:10.440 --> 00:36:13.080 77% with retic count of 4%.

NOTE Confidence: 0.6194185

00:36:13.080 --> 00:36:14.480 Mild spot was positive,

NOTE Confidence: 0.6194185

00:36:14.480 --> 00:36:15.880 total ability was 6,

NOTE Confidence: 0.6194185

00:36:15.880 --> 00:36:17.782 but the CMP was otherwise normal

NOTE Confidence: 0.6194185

00:36:17.782 --> 00:36:20.040 and there was a normal lipase.

NOTE Confidence: 0.6194185

00:36:20.040 --> 00:36:23.811 So again in assessment we have a 17

NOTE Confidence: 0.6194185

00:36:23.811 --> 00:36:25.568 year old girl with a past medical

NOTE Confidence: 0.6194185

00:36:25.568 --> 00:36:27.156 history of sickle cell anemia

NOTE Confidence: 0.6194185

00:36:27.156 --> 00:36:28.866 who presents with abdominal pain

NOTE Confidence: 0.6194185

00:36:28.866 --> 00:36:30.680 history also notable for fatigue,

NOTE Confidence: 0.6194185

00:36:30.680 --> 00:36:32.360 light headedness and shoulder pain.

NOTE Confidence: 0.6194185

00:36:32.360 --> 00:36:34.760 Most likely secondary to

NOTE Confidence: 0.6194185

00:36:34.760 --> 00:36:35.960 splenic sequestration.

NOTE Confidence: 0.6194185

00:36:35.960 --> 00:36:39.040 As her variant hemoglobinopathy continues

00:36:39.040 --> 00:36:40.876 leads to continued risk of events.

00:36:40.880 --> 00:36:42.296 Pneumonia is also possible,

00:36:42.296 --> 00:36:45.480 giving the fever to get me in tachycardia,

00:36:45.480 --> 00:36:46.917 less likely pancreatitis.

00:36:46.917 --> 00:36:49.312 I'd probably give pain medications

00:36:49.312 --> 00:36:51.160 and start antibiotics.

00:36:51.160 --> 00:36:52.609 So one thing I think is interesting

00:36:52.609 --> 00:36:54.472 as I buy time for you all to put

00:36:54.472 --> 00:36:56.273 this into the chat or feel free to

00:36:56.273 --> 00:36:57.473 like unmute yourself about what

00:36:57.473 --> 00:37:00.084 you think is going on with this

00:37:00.084 --> 00:37:03.516 learner is that often time I do

00:37:03.516 --> 00:37:05.540 direct observations of faculty

00:37:05.640 --> 00:37:08.848 and specialties outside of my my

00:37:08.848 --> 00:37:10.800 area of internal medicine.

NOTE Confidence: 0.6194185

00:37:10.800 --> 00:37:13.312 And I will say while you do have

NOTE Confidence: 0.6194185

00:37:13.312 --> 00:37:16.283 to have a some level of knowledge

NOTE Confidence: 0.6194185

00:37:16.283 --> 00:37:17.639 in these conditions,

NOTE Confidence: 0.6194185

00:37:17.640 --> 00:37:19.998 for the most part I feel like I can

NOTE Confidence: 0.6194185

00:37:19.998 --> 00:37:22.792 get a pretty decent sense of where

NOTE Confidence: 0.6194185

00:37:22.792 --> 00:37:24.640 a learner's clinical reasoning is

NOTE Confidence: 0.6194185

00:37:24.640 --> 00:37:27.118 simply by how they present the information.

NOTE Confidence: 0.6194185

00:37:27.120 --> 00:37:28.828 That's why it can be helpful to

NOTE Confidence: 0.6194185

00:37:28.828 --> 00:37:30.199 have frameworks to some degree.

NOTE Confidence: 0.6194185

00:37:30.200 --> 00:37:30.680 So hopefully,

NOTE Confidence: 0.6194185

00:37:30.680 --> 00:37:31.400 even though this

NOTE Confidence: 0.3283914

00:37:36.850 --> 00:37:39.530 a little bit more specific of a case,

NOTE Confidence: 0.3283914

00:37:39.530 --> 00:37:41.442 y'all might be able to share where you

NOTE Confidence: 0.3283914

00:37:41.442 --> 00:37:43.489 think this learner is struggling the most,

NOTE Confidence: 0.3283914

00:37:43.490 --> 00:37:45.807 even if you might not necessarily know

NOTE Confidence: 0.3283914

00:37:45.810 --> 00:37:48.970 how you would teach it given the feel.

00:37:48.970 --> 00:37:50.368 So what do you think is

00:37:50.368 --> 00:37:51.810 going on with this learner?

00:37:51.810 --> 00:37:52.850 Where are they struggling?

00:37:58.130 --> 00:38:01.903 Yeah, all four. I agree there's

00:38:01.903 --> 00:38:04.640 a lot to unpack in this case.

00:38:04.640 --> 00:38:07.232 One thing I'll I'll say with that in mind,

00:38:07.240 --> 00:38:08.800 and everybody's different and

00:38:08.800 --> 00:38:11.140 sometimes you just absolutely need to

00:38:11.201 --> 00:38:13.236 clarify information from a learner.

00:38:13.240 --> 00:38:15.431 But I will say usually I'll wait

00:38:15.431 --> 00:38:17.564 until the end of a presentation

00:38:17.564 --> 00:38:19.434 before I make any comment,

00:38:19.440 --> 00:38:21.785 just because there could be so many

00:38:21.785 --> 00:38:23.389 different things along the way

00:38:23.389 --> 00:38:25.272 that you might want to talk about.

NOTE Confidence: 0.3283914

00:38:25.280 --> 00:38:27.518 And if you have limited time,

NOTE Confidence: 0.3283914

00:38:27.520 --> 00:38:29.205 sometimes you can only pick

NOTE Confidence: 0.3283914

00:38:29.205 --> 00:38:30.553 like certain specific things.

NOTE Confidence: 0.52107096

00:38:37.950 --> 00:38:38.030 All

NOTE Confidence: 0.52107096

00:38:41.230 --> 00:38:44.416 right, so we have votes for all

NOTE Confidence: 0.52107096

00:38:44.416 --> 00:38:46.308 categories, anything in specific.

NOTE Confidence: 0.52107096

00:38:46.310 --> 00:38:48.487 If you saw this learner what you

NOTE Confidence: 0.52107096

00:38:48.487 --> 00:38:50.030 would consider working with for them?

NOTE Confidence: 0.52107096

00:38:52.190 --> 00:38:54.406 So a couple of things that I would

NOTE Confidence: 0.52107096

00:38:54.406 --> 00:38:57.229 I I feel like would I'd want to

NOTE Confidence: 0.52107096

00:38:57.229 --> 00:39:00.146 work with this learner on one is

NOTE Confidence: 0.52107096

00:39:00.146 --> 00:39:02.000 their problem representation.

NOTE Confidence: 0.52107096

00:39:02.000 --> 00:39:04.576 So this is a very common phenotype of

NOTE Confidence: 0.52107096

00:39:04.576 --> 00:39:06.217 problem representation that we'll get

NOTE Confidence: 0.52107096

00:39:06.217 --> 00:39:08.089 in our learners where they essentially

NOTE Confidence: 0.52107096

69

00:39:08.089 --> 00:39:09.799 just repeat the history right?

NOTE Confidence: 0.52107096

00:39:09.800 --> 00:39:11.676 How do they distinguish signal from noise?

NOTE Confidence: 0.52107096

00:39:11.680 --> 00:39:12.598 We don't know.

NOTE Confidence: 0.52107096

00:39:12.598 --> 00:39:14.384 And it's like it's really frustrating

NOTE Confidence: 0.52107096

00:39:14.384 --> 00:39:15.824 because it makes the presentations

NOTE Confidence: 0.52107096

00:39:15.824 --> 00:39:16.760 a lot longer.

NOTE Confidence: 0.52107096

00:39:16.760 --> 00:39:18.377 But it is important that they need

NOTE Confidence: 0.52107096

00:39:18.377 --> 00:39:20.288 to find ways to synthesize it, right.

NOTE Confidence: 0.52107096

00:39:20.288 --> 00:39:22.713 And so, you know, sometimes in notes,

NOTE Confidence: 0.52107096

00:39:22.713 --> 00:39:24.197 I like limit learners.

NOTE Confidence: 0.52107096

00:39:24.200 --> 00:39:25.760 I mean, obviously we have like

NOTE Confidence: 0.52107096

00:39:25.760 --> 00:39:26.800 really complex patients sometimes.

NOTE Confidence: 0.52107096

00:39:26.800 --> 00:39:27.472 But all right,

NOTE Confidence: 0.52107096

00:39:27.472 --> 00:39:29.729 you tell me what are like the two or

NOTE Confidence: 0.52107096

00:39:29.729 --> 00:39:31.637 three most important comorbidities we have,

NOTE Confidence: 0.52107096

00:39:31.640 --> 00:39:32.168 All right.

NOTE Confidence: 0.52107096

00:39:32.168 --> 00:39:34.280 Like if you have to pick two symptoms,

NOTE Confidence: 0.52107096

00:39:34.280 --> 00:39:35.015 what would the,

NOTE Confidence: 0.52107096

00:39:35.015 --> 00:39:35.995 what would you include,

NOTE Confidence: 0.52107096

00:39:36.000 --> 00:39:37.449 what are the two labs you would

NOTE Confidence: 0.52107096

00:39:37.449 --> 00:39:39.445 want to or how would you categorize

NOTE Confidence: 0.52107096

00:39:39.445 --> 00:39:40.750 this patient's timing? Right.

NOTE Confidence: 0.52107096

00:39:40.750 --> 00:39:42.920 It's abdominal pain, like is it acute,

NOTE Confidence: 0.52107096

00:39:42.920 --> 00:39:44.576 is it sub acute, chronic, right.

NOTE Confidence: 0.52107096

00:39:44.576 --> 00:39:46.080 Those are whole different

NOTE Confidence: 0.52107096

00:39:46.080 --> 00:39:48.360 differentials for us as well.

NOTE Confidence: 0.52107096

00:39:48.360 --> 00:39:51.342 So that would be one thing for

NOTE Confidence: 0.52107096

00:39:51.342 --> 00:39:53.274 problem representation as well.

NOTE Confidence: 0.52107096

00:39:53.274 --> 00:39:56.313 The other one is management, right?

NOTE Confidence: 0.52107096

00:39:56.313 --> 00:39:58.078 And now to be fair,

NOTE Confidence: 0.52107096

00:39:58.080 --> 00:40:00.026 it's like I don't know how many

NOTE Confidence: 0.52107096

00:40:00.026 --> 00:40:01.561 learners you would have who

NOTE Confidence: 0.52107096

00:40:01.561 --> 00:40:03.493 would actually just say give pain

NOTE Confidence: 0.52107096

00:40:03.493 --> 00:40:05.199 medications and start antibiotics,

NOTE Confidence: 0.52107096

00:40:05.200 --> 00:40:06.600 maybe an early clerk.

NOTE Confidence: 0.52107096

00:40:06.600 --> 00:40:08.700 But still y'all know that there

NOTE Confidence: 0.52107096

00:40:08.775 --> 00:40:10.994 are plenty of times that we need

NOTE Confidence: 0.52107096

00:40:10.994 --> 00:40:12.879 our learners to specify more.

NOTE Confidence: 0.52107096

00:40:12.880 --> 00:40:14.560 And so that's when it can be helpful

NOTE Confidence: 0.52107096

00:40:14.560 --> 00:40:16.390 to give them a prompt like that

NOTE Confidence: 0.52107096

00:40:16.390 --> 00:40:18.280 management script template that I mentioned.

NOTE Confidence: 0.52107096

00:40:18.280 --> 00:40:18.810 Like, OK,

NOTE Confidence: 0.52107096

00:40:18.810 --> 00:40:20.400 you don't have to say everything,

NOTE Confidence: 0.52107096

00:40:20.400 --> 00:40:22.437 but any tests you want to do,

NOTE Confidence: 0.52107096

00:40:22.440 --> 00:40:23.652 any diagnostic tests.

NOTE Confidence: 0.52107096

00:40:23.652 --> 00:40:26.076 Any medications we want to give,

NOTE Confidence: 0.52107096

00:40:26.080 --> 00:40:27.880 when should we follow up with this patient,

NOTE Confidence: 0.52107096

00:40:27.880 --> 00:40:30.160 right or how long do we want to

NOTE Confidence: 0.52107096

00:40:30.160 --> 00:40:32.156 wait until we get the next BMP.

NOTE Confidence: 0.52107096

00:40:32.160 --> 00:40:34.760 So asking for a little bit more clarity

NOTE Confidence: 0.52107096

00:40:34.760 --> 00:40:37.439 around the management can lead to really,

NOTE Confidence: 0.52107096

00:40:37.440 --> 00:40:39.120 really helpful discussions.

NOTE Confidence: 0.52107096

00:40:39.120 --> 00:40:40.240 And honestly,

NOTE Confidence: 0.52107096

00:40:40.240 --> 00:40:42.837 that's one of the biggest parts of

NOTE Confidence: 0.52107096

00:40:42.840 --> 00:40:45.036 our our clinical reasoning on rounds,

NOTE Confidence: 0.52107096

00:40:45.040 --> 00:40:47.320 right is really helping our learners,

NOTE Confidence: 0.52107096

00:40:47.320 --> 00:40:49.280 especially the more senior learners

NOTE Confidence: 0.52107096

00:40:49.280 --> 00:40:51.236 hone their testing and treatment thresholds.

NOTE Confidence: 0.52107096

00:40:51.240 --> 00:40:52.564 For those early learners,

NOTE Confidence: 0.52107096

00:40:52.564 --> 00:40:54.930 it's just figuring out what you could

NOTE Confidence: 0.52107096

00:40:54.930 --> 00:40:56.844 do and for more senior learners

NOTE Confidence: 0.52107096

00:40:56.844 --> 00:40:58.735 it's figuring out why you should

NOTE Confidence: 0.52107096

00:40:58.735 --> 00:41:00.475 do one thing versus the other,

NOTE Confidence: 0.52107096

00:41:00.480 --> 00:41:02.720 knowing that there isn't necessarily

NOTE Confidence: 0.52107096

00:41:02.720 --> 00:41:05.920 a single right answer.

NOTE Confidence: 0.52107096

00:41:05.920 --> 00:41:07.484 So with that in mind,

NOTE Confidence: 0.52107096

00:41:07.484 --> 00:41:08.800 that's a that's a wrap for me.

NOTE Confidence: 0.52107096

00:41:08.800 --> 00:41:10.960 I wanted to give you all some break.

NOTE Confidence: 0.52107096

00:41:10.960 --> 00:41:13.700 I know again that this is a a

NOTE Confidence: 0.52107096

00:41:13.700 --> 00:41:14.960 busy time for Y'all in between,

NOTE Confidence: 0.52107096

00:41:14.960 --> 00:41:16.920 but I'm around for questions.

NOTE Confidence: 0.52107096

00:41:16.920 --> 00:41:18.950 But again to summarize today we talked

NOTE Confidence: 0.52107096

00:41:18.950 --> 00:41:21.558 about a few things in clinical reasoning.

NOTE Confidence: 0.52107096

00:41:21.560 --> 00:41:21.780 One,

NOTE Confidence: 0.52107096

00:41:21.780 --> 00:41:23.320 we talked about why we do this,

NOTE Confidence: 0.52107096

00:41:23.320 --> 00:41:24.720 which is diagnostic error.

NOTE Confidence: 0.52107096

00:41:24.720 --> 00:41:26.120 We gave some language,

NOTE Confidence: 0.52107096

00:41:26.120 --> 00:41:28.760 we talked about some theories as

74

NOTE Confidence: 0.52107096

00:41:28.760 --> 00:41:31.279 well and really mentioned about the

NOTE Confidence: 0.52107096

00:41:31.280 --> 00:41:32.560 situativity theory, the context.

NOTE Confidence: 0.52107096

00:41:32.560 --> 00:41:34.480 I I probably didn't talk about

NOTE Confidence: 0.52107096

00:41:34.534 --> 00:41:36.278 that as much as we should but you

NOTE Confidence: 0.52107096

00:41:36.278 --> 00:41:36.714 know that

NOTE Confidence: 0.8244934

00:41:36.720 --> 00:41:38.044 clinical reasoning is different

NOTE Confidence: 0.8244934

00:41:38.044 --> 00:41:39.368 in different environments, right,

NOTE Confidence: 0.8244934

00:41:39.368 --> 00:41:41.336 a busy clinic versus having like

NOTE Confidence: 0.8244934

00:41:41.336 --> 00:41:43.687 all the time in the world if you're

NOTE Confidence: 0.8244934

00:41:43.687 --> 00:41:45.680 on like a slow day of rounds.

NOTE Confidence: 0.8244934

00:41:45.680 --> 00:41:47.570 We talked about strategies to assess

NOTE Confidence: 0.8244934

00:41:47.570 --> 00:41:49.140 and teach clinical reasoning really

NOTE Confidence: 0.8244934

00:41:49.140 --> 00:41:50.676 based off of those four steps,

NOTE Confidence: 0.8244934

00:41:50.680 --> 00:41:52.700 data collection, problem representation,

NOTE Confidence: 0.8244934

00:41:52.700 --> 00:41:54.720 differential diagnosis and management,

NOTE Confidence: 0.8244934

00:41:54.720 --> 00:41:57.280 and broad categories of teaching

NOTE Confidence: 0.8244934

00:41:57.280 --> 00:41:59.110 open-ended frameworks, modeling,

NOTE Confidence: 0.8244934

00:41:59.110 --> 00:42:01.550 and providing some directed

NOTE Confidence: 0.8244934

00:42:01.550 --> 00:42:04.360 learning to do afterwards.

NOTE Confidence: 0.8244934

00:42:04.360 --> 00:42:06.520 And then we had a few fun examples,

NOTE Confidence: 0.8244934

00:42:06.520 --> 00:42:08.792 a lot of which I'm not completely sure

NOTE Confidence: 0.8244934

00:42:08.792 --> 00:42:12.758 I knew as a general adult internist.

NOTE Confidence: 0.8244934

00:42:12.760 --> 00:42:13.420 So yeah, sorry,

NOTE Confidence: 0.8244934

00:42:13.420 --> 00:42:14.520 I have some questions here,

NOTE Confidence: 0.8244934

00:42:14.520 --> 00:42:16.356 Feel free to throw them in the chat if

NOTE Confidence: 0.8244934

00:42:16.360 --> 00:42:20.800 or if you are ready to head out as well.

NOTE Confidence: 0.8244934

00:42:20.800 --> 00:42:22.144 I just want to remind everybody

NOTE Confidence: 0.8244934

00:42:22.144 --> 00:42:23.560 what the code is for today.

NOTE Confidence: 0.8244934

00:42:23.560 --> 00:42:27.080 It's 42047 for CME credit,

NOTE Confidence: 0.49400863

00:42:29.200 --> 00:42:32.440 but for Carol, as Carol asks,

NOTE Confidence: 0.49400863

00:42:32.440 --> 00:42:33.392 brings a great point.

NOTE Confidence: 0.49400863

00:42:33.392 --> 00:42:35.148 I don't know if that's a question

NOTE Confidence: 0.49400863

00:42:35.148 --> 00:42:36.493 or just like something we

NOTE Confidence: 0.49400863

00:42:36.493 --> 00:42:38.200 could work on for management,

NOTE Confidence: 0.49400863

00:42:38.200 --> 00:42:40.360 but I think this triage,

NOTE Confidence: 0.49400863

00:42:40.360 --> 00:42:42.920 this disposition is huge actually.

NOTE Confidence: 0.49400863

00:42:42.920 --> 00:42:43.694 So particularly,

NOTE Confidence: 0.49400863

00:42:43.694 --> 00:42:46.016 we know that diagnostic errors happen

NOTE Confidence: 0.49400863

00:42:46.016 --> 00:42:48.480 most in these transitions of care.

NOTE Confidence: 0.49400863

00:42:48.480 --> 00:42:50.080 So really making the decision,

NOTE Confidence: 0.49400863

00:42:50.080 --> 00:42:51.400 can this patient go home?

NOTE Confidence: 0.49400863

00:42:51.400 --> 00:42:53.120 Do they need to go to the Ed?

NOTE Confidence: 0.49400863

00:42:53.120 --> 00:42:55.118 Or if they're in the Ed,

NOTE Confidence: 0.49400863

00:42:55.120 --> 00:42:57.480 should they like, be admitted,

NOTE Confidence: 0.49400863

00:42:57.480 --> 00:42:59.856 Should they go home or should we like wait

NOTE Confidence: 0.49400863

00:42:59.856 --> 00:43:02.400 a little bit longer while they're here?

NOTE Confidence: 0.49400863

00:43:02.400 --> 00:43:03.440 That can be really helpful,

NOTE Confidence: 0.49400863

00:43:03.440 --> 00:43:05.924 particularly to model with our learners

NOTE Confidence: 0.49400863

00:43:05.924 --> 00:43:09.360 to unpacking why that might be so.

NOTE Confidence: 0.49400863

00:43:09.360 --> 00:43:11.680 OK, great.

NOTE Confidence: 0.49400863

00:43:11.680 --> 00:43:12.538 Thanks so much.

NOTE Confidence: 0.49400863

00:43:12.538 --> 00:43:13.396 Sorry, can I

NOTE Confidence: 0.5308898

00:43:13.520 --> 00:43:14.864 ask a great question?

NOTE Confidence: 0.5308898

00:43:14.864 --> 00:43:16.880 So for the four different categories

NOTE Confidence: 0.5308898

00:43:16.943 --> 00:43:18.798 of reasoning that you mentioned,

NOTE Confidence: 0.5308898

00:43:18.800 --> 00:43:20.720 do you feel I almost feel

NOTE Confidence: 0.5308898

00:43:20.720 --> 00:43:22.000 like they are interrelated?

NOTE Confidence: 0.5308898

00:43:22.000 --> 00:43:23.260 For example, if the problem is

NOTE Confidence: 0.5308898

00:43:23.260 --> 00:43:24.798 not and you might have said this,

NOTE Confidence: 0.5308898

00:43:24.800 --> 00:43:26.240 I might have missed the

NOTE Confidence: 0.5308898

00:43:26.240 --> 00:43:27.700 beginning of the talk.

NOTE Confidence: 0.5308898

00:43:27.700 --> 00:43:29.388 But is that is that true?

00:43:29.388 --> 00:43:30.760 Like how I would think about it?

00:43:30.760 --> 00:43:32.875 Like I would think like if the if

00:43:32.875 --> 00:43:34.850 the learner is struggling with

00:43:34.850 --> 00:43:36.234 the problem representation not

00:43:36.234 --> 00:43:38.313 he won't he or she won't come

00:43:38.313 --> 00:43:40.027 up with the right differential

00:43:40.027 --> 00:43:42.055 and hence that will affect the

00:43:42.119 --> 00:43:43.519 next steps of management

00:43:43.920 --> 00:43:45.978 exactly exactly. All of this is intertwined

00:43:45.978 --> 00:43:48.436 and as we've like developed like the side.

00:43:48.440 --> 00:43:50.880 So I will admit I'm a splitter and not a

00:43:50.942 --> 00:43:53.329 lumper and my colleagues and Co researchers

00:43:53.329 --> 00:43:56.120 in the field feel like differently about it.

00:43:56.120 --> 00:43:58.968 But I think part of why I do try and split

00:43:58.968 --> 00:44:01.728 sometimes is because then at least you have

00:44:01.728 --> 00:44:04.760 a better idea of what you can teach, right?

NOTE Confidence: 0.57738435

00:44:04.760 --> 00:44:06.360 Because then if you're teaching

NOTE Confidence: 0.57738435

00:44:06.360 --> 00:44:08.036 like generally it can just be hard,

NOTE Confidence: 0.57738435

00:44:08.040 --> 00:44:10.040 there can just be so much to cover.

NOTE Confidence: 0.57738435

00:44:10.040 --> 00:44:11.400 But you are absolutely right,

NOTE Confidence: 0.57738435

00:44:11.400 --> 00:44:13.080 like combine the steps right now.

NOTE Confidence: 0.57738435

00:44:13.080 --> 00:44:15.224 Hypothesis driven physical examination,

NOTE Confidence: 0.57738435

00:44:15.224 --> 00:44:17.200 right? You need a differential

NOTE Confidence: 0.57738435

00:44:17.200 --> 00:44:19.360 to know what like to do,

NOTE Confidence: 0.57738435

00:44:19.360 --> 00:44:21.484 what questions to ask.

NOTE Confidence: 0.57738435

00:44:21.484 --> 00:44:23.077 Or for example,

NOTE Confidence: 0.57738435

00:44:23.080 --> 00:44:25.522 people say a problem representation that

NOTE Confidence: 0.57738435

00:44:25.522 --> 00:44:27.800 leads towards a differential diagnosis.

NOTE Confidence: 0.57738435

00:44:27.800 --> 00:44:29.600 They pick specific information, right?

NOTE Confidence: 0.57738435

00:44:29.600 --> 00:44:32.408 Because they want you to think of these

NOTE Confidence: 0.57738435

00:44:32.408 --> 00:44:34.880 diagnosis and I will say in like that model,

00:44:34.880 --> 00:44:39.848 like a lot of a lot of researchers or

00:44:39.848 --> 00:44:43.639 like educators will will post it that that

00:44:43.639 --> 00:44:45.634 hypothesis generation actually is the

00:44:45.634 --> 00:44:48.278 first step that that's where you start.

00:44:48.280 --> 00:44:50.555 And from there you have data collection.

00:44:50.560 --> 00:44:51.720 So obviously,

00:44:51.720 --> 00:44:54.040 they definitely blend together.

00:44:54.040 --> 00:44:56.200 But if it can be helpful just to pick

00:44:56.200 --> 00:44:58.285 like 1 area specifically where you want

00:44:58.285 --> 00:45:00.800 to focus at least for a given encounter.

00:45:00.800 --> 00:45:01.400 Does that make sense?

00:45:02.360 --> 00:45:03.064 Yes. Got it. Yeah,

00:45:03.064 --> 00:45:04.360 that's what I was trying to like.

00:45:04.360 --> 00:45:05.638 In my mind, trying to differentiate.

00:45:05.640 --> 00:45:07.327 It makes sense to pick one to

00:45:07.327 --> 00:45:08.844 do an intervention in a small

NOTE Confidence: 0.66050357

00:45:08.844 --> 00:45:10.320 session with this with a learner,

NOTE Confidence: 0.66050357

00:45:10.320 --> 00:45:11.800 but OK, thank you.

NOTE Confidence: 0.4498813

00:45:13.800 --> 00:45:15.580 And I will say a lot of you teach medical

NOTE Confidence: 0.4498813

00:45:15.629 --> 00:45:17.546 students or I think they even do this in

NOTE Confidence: 0.4498813

00:45:17.546 --> 00:45:19.196 graduate medical education with the Epas.

NOTE Confidence: 0.4498813

00:45:19.200 --> 00:45:21.354 Like all of these qualities because

NOTE Confidence: 0.4498813

00:45:21.354 --> 00:45:23.799 map out to the Epas as well.

NOTE Confidence: 0.4498813

00:45:23.800 --> 00:45:26.726 Like if you go from like a level 1 to a level

NOTE Confidence: 0.4498813

00:45:26.726 --> 00:45:29.078 5 from like pre entrustible to entrustible,

NOTE Confidence: 0.4498813

00:45:29.080 --> 00:45:30.837 if you like read the fine print,

NOTE Confidence: 0.4498813

00:45:30.840 --> 00:45:32.880 they essentially include all of these.

NOTE Confidence: 0.4498813

00:45:32.880 --> 00:45:34.535 They might not say problem

NOTE Confidence: 0.4498813

00:45:34.535 --> 00:45:35.859 representation because that's probably

NOTE Confidence: 0.4498813

00:45:35.859 --> 00:45:37.764 too dense of lingo when they were

NOTE Confidence: 0.4498813

00:45:37.764 --> 00:45:39.360 developing these at the double AMC,

NOTE Confidence: 0.4498813

00:45:39.360 --> 00:45:40.800 but all of these map out to that.

NOTE Confidence: 0.4498813

00:45:40.800 --> 00:45:42.352 But at least it's a little bit easier

NOTE Confidence: 0.4498813

00:45:42.352 --> 00:45:43.876 than saying like I think this learner

NOTE Confidence: 0.4498813

00:45:43.876 --> 00:45:45.296 has a good clinical reasoning or bad

NOTE Confidence: 0.4498813

00:45:45.296 --> 00:45:46.636 or I trust them or I don't at least

NOTE Confidence: 0.4498813

00:45:46.636 --> 00:45:48.008 you can like teach them a little

NOTE Confidence: 0.4498813

00:45:48.008 --> 00:45:49.360 bit more specifically that way.

NOTE Confidence: 0.46520224

00:45:51.600 --> 00:45:54.408 And in terms of promoting hypothesis

NOTE Confidence: 0.46520224

00:45:54.408 --> 00:45:56.760 driven history taking and physical exams,

NOTE Confidence: 0.46520224

00:45:56.760 --> 00:45:59.838 sometimes I think if they're going

NOTE Confidence: 0.46520224

00:45:59.838 --> 00:46:02.042 into a room like an outpatient to see

NOTE Confidence: 0.46520224

00:46:02.042 --> 00:46:04.016 a patient with a certain chief concern

NOTE Confidence: 0.46520224

00:46:04.016 --> 00:46:06.292 like right off the bat, I'll say to them,

NOTE Confidence: 0.46520224

00:46:06.292 --> 00:46:08.160 what are you thinking right now just

NOTE Confidence: 0.46520224

00:46:08.160 --> 00:46:10.197 hearing that age and that chief concern,

NOTE Confidence: 0.46520224

00:46:10.200 --> 00:46:12.636 what are some things you're thinking about?

NOTE Confidence: 0.46520224

00:46:12.640 --> 00:46:15.234 And then that helps them say, oh, OK,

NOTE Confidence: 0.46520224

00:46:15.234 --> 00:46:17.880 well I'm going to go in and you know,

NOTE Confidence: 0.46520224

00:46:17.880 --> 00:46:19.220 just this, you know,

NOTE Confidence: 0.46520224

00:46:19.220 --> 00:46:20.794 ask them questions about this,

NOTE Confidence: 0.46520224

00:46:20.794 --> 00:46:22.198 that or the other because I'm

NOTE Confidence: 0.46520224

00:46:22.198 --> 00:46:23.160 already thinking of that.

NOTE Confidence: 0.46520224

00:46:23.160 --> 00:46:25.315 So that's the other thing

NOTE Confidence: 0.46520224

00:46:25.315 --> 00:46:27.120 that's sometimes is helpful to

NOTE Confidence: 0.74022394

00:46:27.280 --> 00:46:28.256 them. That's great, Carol,

NOTE Confidence: 0.74022394

00:46:28.256 --> 00:46:29.720 and I do that as well.

NOTE Confidence: 0.74022394

00:46:29.720 --> 00:46:31.730 I can't say enough that clinical

NOTE Confidence: 0.74022394

00:46:31.730 --> 00:46:33.836 reasoning is iterative and I don't

NOTE Confidence: 0.74022394

00:46:33.836 --> 00:46:35.240 think it necessarily promotes

NOTE Confidence: 0.74022394

00:46:35.240 --> 00:46:36.652 premature closure and anchoring.

NOTE Confidence: 0.74022394

00:46:36.652 --> 00:46:39.040 In fact, I think if you keep learners

NOTE Confidence: 0.74022394

00:46:39.040 --> 00:46:40.496 broad earlier, it can be helpful.

NOTE Confidence: 0.74022394

00:46:40.496 --> 00:46:41.840 But asking them to start thinking,

NOTE Confidence: 0.74022394

00:46:41.840 --> 00:46:43.484 OK, like what diagnosis he's heading

NOTE Confidence: 0.74022394

00:46:43.484 --> 00:46:44.886 into this patient with shortness

NOTE Confidence: 0.74022394

00:46:44.886 --> 00:46:46.434 of breath do you think about,

NOTE Confidence: 0.74022394

00:46:46.440 --> 00:46:47.893 because then they'll know like, oh,

NOTE Confidence: 0.74022394

00:46:47.893 --> 00:46:50.237 I want to ask questions about PE or

NOTE Confidence: 0.74022394

00:46:50.237 --> 00:46:52.800 want to ask questions about pneumonia.

NOTE Confidence: 0.74022394

00:46:52.800 --> 00:46:53.142 That's great.

NOTE Confidence: 0.74022394

00:46:53.142 --> 00:46:54.880 I love that you do that with your learners.

NOTE Confidence: 0.30947968

00:47:07.760 --> 00:47:09.734 Any other tips and tricks from

NOTE Confidence: 0.30947968

00:47:09.734 --> 00:47:11.998 the group that you want to share

NOTE Confidence: 0.30947968

00:47:12.000 --> 00:47:14.040 stuff that Y'all are doing already,

NOTE Confidence: 0.30947968

00:47:14.040 --> 00:47:15.440 which I'm sure is terrific.

NOTE Confidence: 0.30947968

00:47:17.680 --> 00:47:19.437 All right, well, I'll take my leave.

NOTE Confidence: 0.30947968

00:47:19.440 --> 00:47:21.500 Thank you so much for having me. Panina.

NOTE Confidence: 0.30947968

00:47:21.500 --> 00:47:24.000 Thank you everybody for joining.

NOTE Confidence: 0.30947968

00:47:24.000 --> 00:47:24.816 It was a blast.

NOTE Confidence: 0.30947968

00:47:24.816 --> 00:47:26.900 And feel free to reach out if you ever

NOTE Confidence: 0.30947968

00:47:26.900 --> 00:47:28.520 want to talk about clinical reasoning.

NOTE Confidence: 0.30947968

00:47:28.520 --> 00:47:29.996 It's my favorite thing to do.

NOTE Confidence: 0.47928426

00:47:30.840 --> 00:47:32.706 Thank you so much for joining

NOTE Confidence: 0.47928426

00:47:32.706 --> 00:47:33.942 us in Pediatrics, especially

NOTE Confidence: 0.47928426

00:47:33.942 --> 00:47:35.754 since I know you're on service.

NOTE Confidence: 0.47928426

00:47:35.760 --> 00:47:37.128 So thanks so much.

NOTE Confidence: 0.47928426

00:47:37.128 --> 00:47:38.838 We all really appreciated it.

NOTE Confidence: 0.47928426

00:47:40.200 --> 00:47:41.559 Bye all. Bye.