1	ADVISORY COUNCIL ON
2	RADIATION PROTECTION
3	
4	CERTIFIED
5	ORIGINAL
6	
7	
8	Florida Department of Health Bureau of Radiation Control
9	Hampton Inn & Suites
10	Tampa Airport Avion Park Westshore
11	Tampa, Florida 33607
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14	
15	Tuesday, May 13, 2025
16	10 a.m 2:53 p.m.
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18	Reported by
19	Rita G. Meyer, RDR, CRR, CRC Realtime Reporter and Notary Public
20	State of Florida at Large
21	
22	
23	A G R ALL GOOD REPORTERS
24	CAPTURING EVERY WORD
25	

1	ADVISORY COUNCIL MEMBERS PRESENT:
2	Mark S. Seddon, M.P., DABR, DABMP (Vice-Chairman) Chantel Corbett, AS, CNMT, RT (N), RSO
3	Adam Weaver, MS, CHP Joseph Danek, CHP
4	Jennifer L. Peterson, M.D. Kathleen Drotar, Ph.D., M.Ed., RT. (R) (N) (T)
5	Albert Tineo, MS, CNMT Nicholas Plaxton, M.D.
6	Rosevelt Nheik, RRA, RT, (R) (VI) (ARRT), RPA (CBRPA), MRS
7	Dawn Shepard, NP, Florida Gulf Coast University
8	
9	FLORIDA DEPARTMENT OF HEALTH STAFF BUREAU OF RADIATION CONTROL:
10	Clark Eldredge, Bureau Chief
11	James Futch, Environmental Administrator Kevin Kunder, CNMT, RT(N), Environmental Administrator
12	Lisa Gavathas, Environmental Administrator Dayle Mooney, MQA Administrator (Appearing remotely)
13 14	Evalee Taylor, Programs Operations Administrator (Appearing remotely) Joshua Carde, IT specialist
15	GUEST SPEAKER:
16	Adam Wang, Ph.D. (Appearing remotely) Stanford University
17	MEMBERS OF THE PUBLIC:
18	Sean O. Wilson, MS, DABR, West Physics
19	
20	
21	
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1	MARK SEDDON: We have the majority of folks
2	here. I think James said there's some people
3	running a little behind because of meeting some
4	traffic.
5	All right. So we'll go ahead and do our
6	introductions, if that's okay. All right. Start
7	from this side, Joseph?
8	JOSEPH DANEK: Yes. I'm Joe Danek. I'm a
9	certified health physicist. I'm also considered the
10	expert in environmental matters for the advisory
11	council. I'm retired. I think I know everybody in
12	here from the past meeting, but I worked for Florida
13	Power and Light and NextEra Energy in their nuclear
14	power program for 35 years.
15	LISA GAVATHAS: I'm Lisa Gavathas. I am the
16	it says environmental specialist, but I'm the
17	environmental administrator for the x-ray program
18	for radiation machines in Tallahassee.
19	KEVIN KUNDER: I'm Kevin Kunder. I'm the I
20	also work for Department of Health Radiation Control
21	and I'm the radioactive materials administrator.
22	CLARK ELDREDGE: Clark Eldredge, Bureau Chief
23	for the Bureau of Radiation Control.
24	MARK SEDDON: I'm Mark Seddon. I'm the
25	certified medical physicist. I'm representative and
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1	also serving as the Chair for this meeting.
2	JAMES FUTCH: James Futch with the microphone.
3	To remind everybody, we're actually being recorded
4	right now. We have a guest coming up and Josh is
5	getting ready for him, so we started the recording
6	early. We're not going to do the whole meeting.
7	Just the parts that have the remote participants.
8	Anyway, James Futch, Bureau of Radiation
9	Control, Technology Standards, CE; other things.
10	This morning, Brenda and Antonya, administrative
11	support for the group.
12	If anybody wants to be heard on the recording,
13	you're more than welcome to borrow this. I'm
14	turning it off.
15	KATHLEEN DROTAR: Kathy Drotar. I'm the
16	radiation no, I'm not. Am I?
17	JAMES FUTCH: We'll get to that in just a
18	second.
19	KATHLEEN DROTAR: So possibly radiation therapy
20	technologist member or member of the public.
21	ALBERT TINEO: I'm Albert Tineo. I'm from
22	Halifax Health.
23	ROSEVELT NHEIK: I'm Rosevelt Nheik. I'm the
24	radiologist assistant for Florida. I work at Moffit

25

Cancer Center.

1	CHANTEL CORBETT: Chantel Corbett. I work for
2	Fusion Physics. Pending nuclear medicine
3	representation on the council.
4	JENNIFER PETERSON: I'm Jennifer Peterson. I'm
5	a radiation oncologist at Mayo.
6	DAWN SHEPARD: My name is Dawn Shepard. I'm a
7	member of the public. I'm also a triple boarded
8	nurse practitioner working for Florida Gulf Coast
9	University. Hi, everyone.
10	MEMBERS: Good morning.
11	JOSH CARDE: Oh. My name is Joshua Carde. I'm
12	the senior information business tech consultant.
13	That's just a fancy way of saying I'm the IT guy.
14	MARK SEDDON: The important guy. All right.
15	So do you want to talk about minutes? Make sure
16	everyone has your lunch order placed in and provided
17	to Miss Lisa.
18	JAMES FUTCH: And Adam said he was not eating
19	with us and Dr. Plaxton said he was, so hopefully
20	he'll be here soon and he can give that to us.
21	LISA GAVATHAS: Okay. We have a speaker, a
22	guest speaker coming up who's Adam Wang. He's a PhD
23	assistant professor at Stanford University. And he
24	is on the Space X-ray team. Recently, I was
25	contacted by a radiologist from Mayo Clinic

1	Rochester. I was contacted by a radiologist,
2	Dr. Sheyna Gifford, from Mayo Clinic, and she was
3	asking what the regulatory requirements were for
4	having an x-ray machine in the State of Florida. So
5	I asked, where are you using it? And she said it
6	was going to be on Kennedy Space Center. So I said,
7	okay.
8	So I passed it over to NASA, one of our ex
9	co-workers, Tristan Timm and he talked to her. We
10	have e-mail chains going back on forth. And she
11	and when he asked her, she said, it will be in
12	space. So it was out of their regulatory purview, I
13	guess.
14	So anyway, I asked she did volunteer to
15	speak to us. She did she volunteered to speak to
16	our group. And so when she found out the day and
17	time, she wasn't able to make it, but she did get us
18	in touch with Dr. Wang, who volunteered graciously
19	to be here today and so he's going to be on shortly,
20	hopefully. And James and I talked to him briefly
21	and it sounds like a very interesting topic.
22	JOSEPH DANEK: Is he also from Stanford?
23	LISA GAVATHAS: He is from Stanford. He's an
24	assistant professor of radiology at Stanford.
25	JAMES FUTCH: His bio is actually in the

1	packet.
2	JOSEPH DANEK: Oh, it is? Okay.
3	LISA GAVATHAS: I didn't want to say too much
4	because I didn't want to I figured that he would
5	probably introduce himself, so
6	JOSEPH DANEK: Yeah.
7	NICHOLAS PLAXTON: Do they need a technologist
8	in space? Advocations?
9	JAMES FUTCH: Yeah.
10	KATHLEEN DROTAR: Are you volunteering?
11	ROSEVELT NHEIK: I'll go.
12	JAMES FUTCH: It was really interesting. We're
13	looking for it. For the other part of this morning,
14	we're going to have our after Dr. Wang goes and
15	Clark and Kevin give their updates, we're going to
16	have the medical quality assurance staff from
17	Tallahassee remote to answer questions. Not a
18	presentation. To answer questions. And it's
19	basically about the licensing, Rad Tech licensing
20	issues that several facilities and schools have had
21	for about since June of last year. And I'll
22	summarize the message for you.
23	We had a problem, it's, it's, it's fixed or
24	it's on its way to being fixed and Kathy may have
25	some questions and maybe Alberto will have

1	questions. Anybody else who's an employer or
2	whatever you want. That's what they're here for.
3	Dayle Mooney is my equivalent on the MQA
4	medical quality assurance side. And she and her,
5	her administrative assistant will be on, Evalee
6	Taylor, whose name I didn't put in here.
7	Let's see. What else was there? Oh, planning
8	for the next meeting, as long as we're killing a
9	little bit of time, the sorry. The planning for
10	the next meeting, we're trying to look at October.
11	I'm getting a little ahead of myself. It's the last
12	thing we'll talk about. I wanted to have it in your
13	heads.
14	We actually have two talks planned for October.
15	One of those is going to be the radiation safety
16	officer, Kurt Geber, from the Kennedy Space Center,
17	on to basically do a talk along the lines of what
18	KSC uses radiation for.
19	And there's Dr. Wang, so we'll talk about that
20	later.
21	Hey, Dr. Wang. How are you doing this morning?
22	DR. ADAM WANG: Hi. Good. Good morning,
23	everyone. Can you hear me?
24	JAMES FUTCH: You are loud and clear. Can you
25	hear us okay?

1	DR. ADAM WANG: Yes. That's great.
2	JAMES FUTCH: Good. We have assembled most
3	of the members are here this morning. And we have a
4	couple minutes ahead of time. I don't know if you
5	want to do your own bio intro or if you want us to
6	or whatever to lead off with. Please, go ahead.
7	DR. ADAM WANG: Sure. Yeah. Well, thanks
8	again for having me.
9	So I'm over here in California. I'm an
10	assistant professor of radiology where I lead a
11	research group over at Stanford University in
12	California. I've been part of the Space X-ray team
13	for the past few years and I'm happy to share what
14	we've done as a team. So let me go ahead and pull
15	up my slides.
16	Is that coming through for you?
17	JAMES FUTCH: It's beautiful.
18	DR. ADAM WANG: Okay.
19	JAMES FUTCH: The first thing I want to say is

JAMES FUTCH: The first thing I want to say is

I want permission to take your mission patch and

make T-shirts out of it because that's a pretty cool

logo.

DR. ADAM WANG: Yeah. Yeah, that's been fun, one fun part of it, so yeah, that's our mission patch.

23

24

1	And so today, I'm going to share about our
2	the story behind the world's first medical x-ray in
3	space.
4	So just to acknowledge the team. So first I'll
5	just say that I'm full disclosure here I'm an
6	unpaid consultant, which means basically that I
7	volunteer my time for this project because it's a
8	fun project, so I do this outside of my data out
9	here at Stanford.
10	Our team is comprised of well, first off,
11	I'll acknowledge our fearless leader, team leader
12	Sheyna Gifford, who's at the Mayo Clinic. So our
13	team is comprised of aerospace medicine physicians
14	and radiologists. I'm a researcher, myself. And we
15	have a couple of industry participants, so from
16	x-ray and MK imaging.
17	So our study goal has been to successfully
18	demonstrate a battery-powered digital portable
19	radiography system in the setting of orbital flight.
20	And essentially, that means in space.
21	So why x-ray? Well, I think this group knows
22	very well the power of x-rays and the utility of
23	x-rays. It is the most commonly performed
24	terrestrial exams here on earth, medical imaging
25	exam. And of course, it has utility in evaluating

1	dental disease, musculoskeletal system, lungs,
2	medical devices, lines, tubes and it's also been
3	demonstrated in numerous austere environments such
4	as this example here, using actually very similar
5	technology at Everett Space Camp.
6	What has not been done is testing it in
7	suborbital or orbital flight. At least for space
8	medicine, we believe that this is going to be
9	important for providing quality health care for
10	long-duration missions and permanent habitations.
11	So think about long-duration trips to Mars or
12	habitation on the moon.
13	So the equipment that was used and by the
14	way, feel free to jump in with questions at any time
15	or I'm happy to take questions at the end.
16	So the equipment that was used, again, working
17	with the vendors here, so on the x-ray generator
18	side, this is a portable system from MinXray.
19	They're a company based out of the Chicago area and
20	the weight is, as you see here, 7.7 kilograms or
21	about 16 pounds, so it's definitely handheld. You
22	can carry it around, battery powered, and it's
23	already been recognized for military use.
24	You can see its max output here, 90kV, so it's

25

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certainly good enough for x-ray imaging, although

	lower power than, say,	a 1	t TTX	.ea s	ysten
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On the detector side, we're using the KA

Imaging panel and this is, again, a wireless battery
powered portable detector. Weighs about eight
pounds. And it's full size for chest and other
imaging.

I'll talk a little bit about the triple, what's unique about this, the triple layer detector with dual-energy capability. We'll talk a little bit more about that. Importantly, both these pieces of equipment are FDA cleared, so they are -- they can be sold and used commercially here in the U.S.

So the state of space medicine, at least three years ago, was that, you know, I pulled this quote that the advancement of human space flight needs medical imaging technology to insure high-level of inflight care. And as of three years ago, only ultrasounds had been used in space flight. So again, our proof of concept work is to demonstrate the feasibility of performing human radiographs first actually in microgravity.

So at the time, our first mission patch was for diagnostic portable x-ray in space. And again, this was a collaboration among radiologists, physicians, scientists and x-ray vendors. So we called

1	ourselves DUX initially. And this is our x-ray
2	space duck.
3	Okay. So the first demonstration was actually
4	just in a parabolic flight. So in microgravity, can
5	you take radiographs? And there's you know, when
6	you think about it, in microgravity, there's no
7	reason that the equipment wouldn't function. This
8	equipment doesn't fundamentally rely on gravity.
9	But what does become tricky is things like
10	positioning and, you know, any concerns about
11	motion.
12	So this was the first technical demonstration,
13	and this is actually, so again, our PI, our leader,
14	team lead, Sheyna Gifford, and then Mike Cairnie,
15	who's with MinXray.
16	So I have this little video. It's also
17	available on YouTube, and it basically shows, you
18	know, what happened and, again, MinXray put this up
19	just to help publicize what they had done at the
20	time and to demonstrate the diagnostic x-ray in a
21	zero gravity environment. So hopefully the video
22	comes across.
23	(Video Played)
24	DR. ADAM WANG: So here they are seated.
25	Strapped in on the flight, just to take a couple

1	test images. The hand radiograph. Their legs are
2	kind of kicking up because they're in the part of
3	the parabola that's zero gravity, and then as they
4	go into the next parabola, you can see they're
5	floating around. They have a little bit of help
6	positioning with a chest x-ray. Mike is tethered,
7	using the foot straps here just to anchor himself
8	and, of course, Sheyna had the assistance of the
9	crew to help obtain the chest x-ray.

They're still floating around. The photographer. Here's another one.

So as you know, the x-ray image, itself, is very fast and, you know, tried to optimize for speed because to minimize motion. Each of these parabolic flights, I think the flight has about 15 parabolas and when you go to the top of it, you have about thirty seconds of weightlessness or microgravity and so they were, again, playing around acquiring different images and just seeing, again, how well things worked and what the images would look like.

So, and in fact, you know, this is the hand x-ray and then for publication, just for fun, we put it next to the Roentgen's famous first x-ray image of his wife's hand.

Okay. So where actually I joined the project

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is just to help with the quantitative assessment of
image quality. And so I think, as many of you are
familiar, what we like to do is acquire phantom or
test pattern images. And this was a phantom that
was brought on the parabolic flight. Just a
standard radiographic test pattern and under
different conditions.

So on the ground, before and after the flight, sort of during a lunar one-sixth gravity part of the flight, zero gravity while buckled to the seat and zero gravity while unbuckled. And in the end, by looking at the spatial resolution, the line pair phantom and the contrast to noise ratio, these different targets, we found that the image quality was equivalent to no change to image quality. And similar findings for the -- between having radiologists look at the hand images. When they were blinded, they didn't see a difference.

So that lead to our team publication in

Airspace Medicine and Human Performance, just

basically talking about the work that was done in

parabolic flight. So that was a couple years ago.

And so after this successful demonstration, then we set our aims higher. And specifically, we rebranded to SpaceXray because now we were thinking

1	about space. And there have been two main aims
2	here. One is just, again, diagnostic adequacy. So
3	to demonstrate that we can produce both
4	quantitatively and qualitatively, diagnostically
5	adequate radiographs during space flight and in that
6	environment. And so now one concern, potential
7	concern is during space flight, you're in a higher
8	radiation environment, just radiation in outer
9	space. So we want to compare radiographs of human
10	subjects and phantoms compared to ground reference
11	on earth.

The other thing that we, we wanted to be a part of the project is to look at bone mineral density quantification and see if we can evaluate a novel method for assessing crew member bone mineral density using these radiographs. And so the reference here on earth is DXA, which is a standard technique and requires a special piece of equipment I think you guys are familiar with, but we wanted to do this off of our radiographs.

So what are some potential hazards or issues?

Well, radiation does to the crew is a potential concern. So we're going to make sure that crew members, only the ones who are being imaged are direct in the beam and then to minimize scatter

radiation through distance, if possible. And then
to use phantoms when possible for quantitative
analysis.

And then potential concern of dose to the craft. It is a relatively small craft. But again, most components are radiation hardened for space, so we weren't too concerned about any radiation from our imaging. And, and certain radio sensitive equipment might be placed out of the path.

And so we did a quick study to see, you know, in terms of radiation, how much radiation the crew would receive. And based on our protocol, we were anticipating a total of maybe 3.8mSv of radiation --most of it in flight -- up to 2.4mSv, depending on how many images were taken. And a couple of preflight and postflight images as references. And, of course, that's approximately annual background radiation for -- in the U.S.

And what was interesting to me, at least not being airspace medicine, was that the crew limit for astronauts is 600mSv, so much higher than, than the radiation from being part of this study.

So we were fortunate that we were selected to be part of the Fram2 space flight. This is a recent flight that launched out of Cape Canaveral. And

1	notably, this flight actually is the first human
2	space flight to earth's polar regions. So I, I
3	actually didn't know that. No previous flight had
4	actually gone over the earth's polar regions. So
5	this was the first to do so. And that's why it was
6	actually called Fram2, because the first men at the
7	North Pole in 1911, their ship was the Fram and so,
8	just following that. This crew of four individuals
9	first to orbit the poles, and named Fram2.
10	So it was a private human space flight, all
11	civilian crew of four individuals and launched, you
12	know, just over a month ago. End of March. And,
13	you know, again, for us, we were one of 22

civilian crew of four individuals and launched, you know, just over a month ago. End of March. And, you know, again, for us, we were one of 22 experiments that were selected to be part of the mission. It was a pretty short flight. I think four days in total. So they were pretty busy doing different kinds of experiments.

And I bolded this, but key highlights include capturing the first human x-ray in space and a number of other experiments, including growing mushrooms. But also things like glucose monitoring and brain imaging here after landing to see any changes.

So during the lunch, there was a broadcast and we were very thrilled to have been part of the

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1	discussion in terms of T minus 31 minutes and when
2	they were talking about the research projects, they
3	actually showed off some of our equipment here. So
4	this was not, of course, the equipment that actually
5	went up. This was another set because the equipment
6	was already on board T minus 31.

And so, it was very exciting to see actually the next day, the following day, April 1st, this is actually how we learned that it was successful, through a tweet.

So on Twitter, one of the crew members actually had this long post, you know, saying, okay. The ride was simple but small, but the ride to orbit was smoother than I anticipated. And then, you know, the first few hours, I felt a little motion sickness. After some rest, by the second morning, I was refreshed. We had breakfast, took a few x-rays, and then opened the -- they had a big viewing port to look at the South Pole.

And then he posted a few pictures, including this hand x-ray. So it was how we found out, sort of a very casual post, but to us, we were very excited to see that.

And then, just at the, again, a few days later when they splashed down, there was another live feed All Good Reporters, LLC 407.325.0281 www.AllGoodReporters.com

1	and they, during that, they again highlighted this
2	first successful x-ray, again, did the side by side
3	with the so first, of course, Roentgen's first
4	x-ray and then the first x-ray from space.
5	JAMES FUTCH: Dr. Wang, I have to ask so we can
6	document for prosperity. Whose hand is that?
7	DR. ADAM WANG: Yeah, so I can't say that. It
8	is one of the crew members but, yeah. Yeah.
9	Anyway. But, anyway. So, yeah.

But anyway, if anyone's interested, you can see the, the tweet here. And I did share the slide, so if anyone's interested in, in any of this material, feel free to ask James or myself.

Okay. And then another tweet from one of the other crew members showed off this chest x-ray in space. Now, these were just using their phones to take pictures of the x-rays as they appeared on the laptop.

So the detector is wirelessly connected to a laptop they had on board and that's how they were able to view the images. And so this isn't the image, itself, but just showing what was posted publically. And again, everything I'm sharing today has been shared publically. So this is the first chest x-ray in space.

1	JAMES FUTCH: Dr. Wang?
2	DR. ADAM WANG: Yes.
3	JAMES FUTCH: I just wanted to ask, the
4	artifact, is that a dosimeter on the left lung?
5	DR. ADAM WANG: Yeah, so they're wearing what's
6	called a BioButton. I actually don't know what it
7	is, but it's a device that they're wearing, so it is
8	part of the, of the image, yeah, quite prominently,
9	but not a dosimeter. Some sort of BioButton. I'm
10	not sure what that device is.
11	JOSEPH DANEK: Can I ask a question, Dr. Wang?
12	JAMES FUTCH: Hold on a second.
13	JOSEPH DANEK: Dr. Wang, what altitude was this
14	orbit at and was it in gravity, not in gravity? I'm
15	assuming it was you were being in gravity while
16	doing this, but altitude and gravity effect, if any.
17	DR. ADAM WANG: Yeah. I forget the I mean,
18	they were definitely in orbital flight. Again,
19	going around the poles, North and South Poles. And
20	so this was, you know I mean, I couldn't quite
21	hear the question, but this was definitely in the,
22	you know, zero gravity as they were in flight.
23	JAMES FUTCH: I think the question was the
24	altitude.

DR. ADAM WANG: Oh, altitude.

1	JAMES FUTCH: ISS go anead.
2	DR. ADAM WANG: I'd have to check that. I
3	actually don't know the answer to that.
4	Okay. So there is this video again that was
5	posted on Twitter by one of the crew, just showing
6	them, showing them acquiring the phantom image.
7	(Video Played)
8	DR. ADAM WANG: So I don't know if you could
9	see that and hear that clearly, but, basically, this
LO	is the phantom that we sent on this mission, so
L1	whoops. So there's a phantom right here
L2	(indicating); a basic radiography phantom. They
L3	also put a Garmin smartwatch on the side and so,
L 4	again, there's four individuals here. So again, one
L5	holding the laptop, one who held it and generator,
L 6	somebody with their phone taking pictures of this so
L7	you can see in the video. So presumably, the fourth
L8	is actually taking the video.
L9	And, and again, I think they were all very
20	excited to see this. So this was so they did the
21	phantoms first before imaging themselves, so just to
22	make sure the equipment was functioning. So you can
23	hear they were excited and, you know, of course,
24	again, we're very excited that everything worked.
25	MARK SEDDON: Quick question. Is there a
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l reason w	hy	

- 2 DR. ADAM WANG: Yes.
- 3 MARK SEDDON: -- they don't fix the tube in the
- detector since they're in orbit? Is there a reason
- 5 for keeping it portable?
- 6 DR. ADAM WANG: Yeah. I think going forward,
- 7 that's something that we would probably try to do.
- 8 We didn't quite know what the cabin environment
- 9 would be like. I think they did their best to hold
- things still. But definitely, if possible, you
- 11 know, to affix to walls or something.
- 12 The -- I think in this case, the phantom was
- affixed to the detector using some velcro or
- something, but -- and then when they were imaging
- their hand or chest, just to -- at least for the
- 16 detector piece to, you know, place your hand against
- it or hold the detector.
- 18 But, yeah. I mean, basically, like, within the
- 19 environment, to hold everything as still as
- 20 possible. But, yeah, if maybe in the future, there
- was an option to just bound or clamp or something,
- that would probably be preferred.
- JAMES FUTCH: Dr. Wang, I have another
- 24 question.
- DR. ADAM WANG: Yes.

Ţ	JAMES FUTCH: The crew I know was all
2	volunteer. How much training did they have in, in
3	x-ray? I don't suppose any of them happened to be
4	an x-ray tech on the side?
5	DR. ADAM WANG: Yeah, no. Great question.
6	Yeah, none of them had, as far as I know, prior
7	experience with x-ray imaging. So there was
8	essentially one or two training sessions of an hour
9	or two familiarizing with the equipment and, and a
10	little bit of imaging beforehand. And so, we, you
11	know, part of the challenge was trying to make it as
12	easy to use as possible. Preprogramming different
13	stations for the generator. Having a clear protocol
14	for push this button, do this, do this, click this
15	button on the laptop to, you know, start the
16	acquisition.
17	So, yeah, that was one thing that we, you know,
18	had to anticipate and sort of, it was part of the
19	test in terms of, like, how easy is it to instruct
20	others to use equipment that they hadn't used
21	before. So, in fact, that's part of the study.
22	MARK SEDDON: Another question, if that's okay.
23	DR. ADAM WANG: Yes.
24	MARK SEDDON: So is this the first medical
25	x-ray or have you guys done have they performed
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1	x-rays on materials in space as part of research,
2	like, you know, sub, you know, like cabinet type of
3	set up?
4	DR. ADAM WANG: Yeah. So we say we're the
5	first medical because I believe it has been done
6	for, again, nonmedical purposes. So I'm not too
7	clear on exactly, you know, how and what so, you
8	know, what equipment and what exactly.
9	I think certainly radiating and just the effect
10	of space of radiation has been done. So but
11	actually, I'm not even sure if that would've been an
12	image. So, so, yeah, but we it is clear that
13	this is the first medical not this particular
14	phantom, but with the hand and other human imaging.
15	MARK SEDDON: Thank you.
16	JAMES FUTCH: Doc, I think we have an answer to
17	the question of the altitude thanks to Mr. Kruger.
18	DR. ADAM WANG: Okay.
19	JAMES FUTCH: It looks like the orbit was 126
20	miles at its closest approach and 257 at its
21	farthest approach. So they're orbiting, like, every
22	93 minutes. And for comparison, the ISS is 250
23	miles and I think about a 90-minute orbit. So
24	pretty close to ISS.
25	DR. ADAM WANG: Okay. So beyond just

1	the standard radiographs, again, one thing of
2	interest for us is essentially bone loss during
3	flight. And so space flight. Because they're in
4	this microgravity environment, they're going to
5	lose astronauts, it's known they lose one to
6	one-and-a-half percent bone mass per month in space.
7	And for comparison, elderly individuals lose about
8	that per year. So it's estimated that if you're to
9	do a three-year space flight to Mars, a third of the
10	astronauts would be at risk for osteoporosis.
11	So the concern is if you land on Mars, which
12	has about .4G gravity, then you might have a hip
13	fracture. And so, you know, there are things you
14	can do to prevent that. You can exercise. So this
15	is actually Suni Williams. And so, exercise on a
16	treadmill. You can put these straps to load your
17	weight-bearing bones and you can take supplements.
18	What can be done is measuring net calcium loss.
19	Just measuring it through, for example, in the
20	urine, but that doesn't help you localize where it
21	is. So if you're, for example, at risk for hip
22	fracture or other fracture.
23	And so the, the gold standard here is DXA,
24	which uses dual-energy x-rays, and you can

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quantitatively measure aerial bone marrow density,

1	so these are in the hip and lumbar spine. So DXA
2	measurements. And it uses a scanner like this.
3	This is from Hologic. This is actually what we have
4	clinically and this is a phantom, so with some
5	vertebrae in there.
6	So again, this is done routinely for
7	osteoporosis screening. And, of course, we wouldn't
8	fly dedicated equipment like this, but our hope is
9	that from a dual-energy radiograph, that we can
10	actually capture similar information.
11	So the KA Imaging panel that we selected was
12	actually it's unique because it actually has
13	three detectors sandwiched together all within the

So the KA Imaging panel that we selected was actually -- it's unique because it actually has three detectors sandwiched together all within the same, very compact detector. So again, the whole thing together was a pound and it's still very thin. Just as thin as any other standard detector, because each of these layers is very thin.

But what you can do with these three detector layers is actually get the spectral information from the x-rays, which gives you dual-energy information. And so, what KA actually has, this is actually part of their FDA cleared product, is they can create -- they can combine those three images to create your traditional image, still create your regular x-ray image. But they can use that spectral information

1	to create a soft tissue image where you use that
2	spectral information to virtually remove the bone,
3	and so you just look at the soft tissue or vice
4	versa and create a bone image where you virtually
5	remove the soft tissue.
6	Now, what they have here is more qualitative.
7	So, you know, again, you can look at the different
8	tissues, but to get to true quantification is still
9	actually an open question and quite challenging to,
LO	to get the accuracy that you would want. So this is
11	something that's ongoing and that we're very
12	interested in. Can it be used for bone density
L3	quantification.
L 4	So actually with that, I'm just going to wrap
L5	up my presentation and just to say that, you know,
L 6	it's still early days. We, again, just very
L7	recently in the past month, successfully
L 8	demonstrated the use of portable radiography
L 9	equipment in the orbital flight. There's more to
20	come. We're working on a journal manuscript where
21	we're going to publish the details of the work that
22	was done and then the DXA analysis is actually
23	ongoing.
24	So, yeah. I'm happy to answer any questions

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now.

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And I have my contact information at the

1	bottom if anyone would like to reach me.
2	JAMES FUTCH: Dr. Wang, do you know what
3	journal it's going to be in?
4	DR. ADAM WANG: Um, we don't know yet. There
5	is a journal in, one of the nature journals called
6	Microgravity, so that's what we're targeting.
7	I have to admit the whole field of aerospace
8	medicine is new to me, so I've learned about that
9	being part of this project. And so, I don't know
10	the different journals that well. But so the first
11	our parabolic flight went to Aerospace Medicine and
12	Human Performance. But I understand that Nature
13	Microgravity is another journal in this community.
14	JAMES FUTCH: Do you know, is there any
15	interest, since this was on a Space X flight that
16	was one of the private ones, is there interest from
17	Space X or NASA to use this or help develop this,
18	especially on the NASA side?
19	DR. ADAM WANG: Yeah. Absolutely. I think
20	NASA is very interested. So, you know, as a team,
21	we've been talking to them. Now that we've
22	demonstrated it, I think we, you know, potentially
23	we could share what we've learned. And again, you
24	know, thinking about longer flights. And so NASA,
25	as far as I know, is quite interested in this work

1	and would be interested in similar things.
2	CLARK ELDREDGE: Dr. Wang, is there the
3	actual sensor, itself, is there a grid in that or
4	not, do you know?
5	DR. ADAM WANG: No grid on the for the
6	detector, yeah. In fact, we made that choice.
7	Well, so it's not built in, and you know, it
8	would've been an option to include one. But we made
9	the choice not to include one because of just the
10	challenges of, in case there's a cut off of the
11	artifacts associated with that.
12	CLARK ELDREDGE: Well, when you work on the
13	angle, any angled instance question, you know, study
14	to see what kind of any issues with that? You
15	know, what the problem, being off normal?
16	DR. ADAM WANG: Yeah. Well, so admittedly, we
17	didn't look at it extensively. We sort of made a
18	decision early on we wouldn't go with the grid. I
19	think it is a portable detector and generally, like,
20	portables are, to me at least in my experience,
21	portables are used without grid. You know,
22	certainly if it were fixed in a system, then to
23	improve image quality, a grid would be valuable, but
24	we felt like for the first technical demonstration,
25	that it wasn't critical. Maybe in the future maybe

1	that's something to improve image quality and
2	actually would help with the dual-energy imaging as
3	well.
4	The main challenge for the dual energy is just
5	to get, get accurate quantification is scatter.
6	Scatter is one of the main challenges.
7	CLARK ELDREDGE: And since you were, you were
8	above the Van Allen belts at this point, but did you
9	see any were you able to quantify any increase in
10	background noise on the imaging because of the
11	increased elevation?
12	DR. ADAM WANG: Yeah. So not visibly. Not
13	anything that we could visibly see. But it's
14	interesting. When I look at the phantom images and
15	try to measure the noise level, I do see a slightly
16	increased noise level, like, on the order of ten
17	percent. So that's something I'm going to look a
18	little more closely at and if that does remain the
19	case, I think it's worth including, you know, in our
20	manuscript in terms of a finding potentially due to
21	the background radiation.
22	LISA GAVATHAS: I have a couple of questions.
23	Did you have to retrofit any of the equipment to be
24	used in space?
25	DR. ADAM WANG: Great question. So

Τ	essentially, no. The equipment was just used off
2	the shelf. As a commercial off-the-shelf equipment.
3	We so there's no modifications. We just made
4	sure everything was set up to be used and ready to
5	use.
6	Again, the equipment is already it's quite
7	appropriate for this environment because, you know,
8	again, it's already battery powered and wireless.
9	It's already been recognized. So, yeah.
10	Essentially, just using it off the shelf as is.
11	LISA GAVATHAS: Okay. And another question.
12	Is there anything that you expect to learn from
13	x-rays in space that could be possibly used on
14	earth?
15	DR. ADAM WANG: Yeah. Well, I think the, for
16	example, the bone marrow density is actually
17	something that would be very useful here on earth as
18	well. So you know, ironically, we're actually
19	trying it out for for not the first time, but
20	early on, still this is one of the earliest trials
21	of this technology. So I'm doing it in space rather
22	than fully having, you know, it's still a work in
23	progress even here on earth. So that's something
24	that I'm quite excited about.
25	And I think, you know, there are some

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differences in physiology in space, so that's 1 something that we'll keep an eye on. And then again, just thinking about how to make the equipment more accessible and easier to use and user friendly. 5 That helps here on earth as well as, you know, maybe gets into the hands of those who aren't trained 6 7 medical experts, radiographers and such.

> LISA GAVATHAS: I do have one more question. Since you were out of our regulatory control, did, did NASA put any stipulations on use on base, or did they have anything to say regulatory wise?

> DR. ADAM WANG: Yeah. So maybe just to give a little background. Sheyna had reached out to Lisa about, inquiring about, you know, what is the regulatory framework for us, since the equipment did launch out of Cape Canaveral in Florida. But -- and so, it was determined that at least we're not within state's jurisdiction. And I recall that when we followed up, it wasn't -- it wasn't in -- somehow it wasn't in federal jurisdiction, either.

> So in the end, to be honest, I don't know that there was any direct oversight by -- I mean, this is a unique case, but I don't recall that there was direct oversight, either, from the state or federal side.

1	JAMES FUTCH: Anybody else have any questions?
2	Well, I, I would like to say thank you very
3	much. We very much enjoyed this. I think the
4	citizens of Florida, especially the folks interested
5	in medical x-rays, will enjoy looking at this and
6	since we were recording it, actually playing it
7	back.
8	Whatever the next step is for you and the team,
9	you are always welcome. Just let us know. We do
LO	this twice a year. In fact, we
L1	DR. ADAM WANG: Sure. Yeah.
L2	JAMES FUTCH: in the fall, I think, I hope
13	to have the radiation safety officer for Kennedy
L 4	Space Center come give a talk about use of radiation
L5	on the facility and what they do. So if you have
L 6	any questions, just pass them along; we'll ask them
L7	for you.
L8	DR. ADAM WANG: Yeah, that sounds great. Yeah.
L 9	Thank you for the opportunity to share.
20	JAMES FUTCH: All right. We'll say goodbye and
21	give him a thank you.
22	(Applause)
23	KATHLEEN DROTAR: Thank you.
24	JAMES FUTCH: Take care.
25	KATHLEEN DROTAR: Quite interesting.

_	1 MAR	K	SEDDON:	Very	interes	sting.
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- 2 KATHLEEN DROTAR: You asked my question.
- 3 MARK SEDDON: Huh?
- 4 KATHLEEN DROTAR: You asked my question. Thank
- 5 you.
- 6 MARK SEDDON: What was that?
- 7 KATHLEEN DROTAR: About a flashpoint. The
- 8 first one you did ask.
- 9 MARK SEDDON: About fixing the --
- 10 KATHLEEN DROTAR: Yeah.
- 11 CLARK ELDREDGE: Yeah, that was one of my --
- 12 MARK SEDDON: Yeah, it seems like it should be
- easier to do that. Maybe they have to package in
- like a cushioning to launch so it doesn't get
- damaged.
- 16 KATHLEEN DROTAR: I think they would have to
- 17 recess it.
- 18 CHANTEL CORBETT: Wouldn't it limit the amount
- of angles in an image, though? At that point, the
- 20 way they were doing it there, you can manipulate the
- 21 person and the detector.
- 22 KATHLEEN DROTAR: You almost have to have a
- 23 swivel head on there.
- 24 MARK SEDDON: Yeah. You can mount it at, like
- 25 normal.

Τ	KATHLEEN DROTAR: Yean.
2	CHANTEL CORBETT: There's obviously gravity
3	changes. You can have the person in different
4	angles as well.
5	MARK SEDDON: Yeah, you can have different
6	KATHLEEN DROTAR: I would think.
7	CLARK ELDREDGE: There's an opportunity for
8	very unique positioning.
9	ALBERT TINEO: I believe so.
10	CHANTEL CORBETT: Just being able to stabilize
11	the person.
12	CLARK ELDREDGE: Yeah, yeah.
13	MARK SEDDON: I'm curious if they ever had,
14	like, a broken bone in space. I'm not sure if
15	that's ever happened. And, you know, the utility
16	for doing x-rays and how does the healing, they can
17	track healing. That would be something I know in
18	zero gravity, the body healing mechanisms change.
19	CHANTEL CORBETT: I mean, if that person has
20	bone loss. The people got stuck up there recently.
21	MARK SEDDON: That's true.
22	CHANTEL CORBETT: That's significant.
23	JAMES FUTCH: Well, I we have some things to
24	move on to. I just wanted to, while we were talking,
2.5	we had a gentleman come in from outside. I'm not

1	sure you want to I just want to let you know,
2	we're recording everything, if you are okay with it.
3	Are you attending as a member of the public today?
4	SEAN WILSON: I am, yes.
5	JAMES FUTCH: Okay. Go ahead.
6	SEAN WILSON: Sean Wilson. I'm a diagnostic
7	medical physicist and licensed radiation safety
8	officer with the State of Florida. I work with West
9	Physics.
10	MARK SEDDON: Welcome, Sean.
11	CLARK ELDREDGE: The folks have joined. Do you
12	want to introduce yourself?
13	ADAM WEAVER: I came in late today, sorry.
14	Adam Weaver, USF radiation safety officer.
15	NICHOLAS PLAXTON: Nicholas Plaxton. I'm a
16	nuclear medicine physician at Bay Pines VA.
17	MARK SEDDON: Right. I think we're off
18	CLARK ELDREDGE: One thing. There was one
19	piece of administrative trivia, so to speak, that we
20	have. It wasn't mentioned yet. Because there was
21	an issue with the noticing of this meeting, we did
22	not there can be no official motions or votes
23	from the committee.
24	KATHLEEN DROTAR: Okay.
25	MARK SEDDON: That's why we didn't approve the

1	minutes, if you noticed that.
2	JAMES FUTCH: Well, we brought them if anybody
3	wants to read them.
4	MARK SEDDON: You can read them, but they're
5	not official minutes. So they're still draft
6	minutes on the website.
7	JAMES FUTCH: So that's a first, I am happy to
8	say, that I've ever experienced in the 27 years that
9	I've been leading this council. So it's rare. We
10	apologize. Somewhere between the legal folks and
11	the downtown folks, there was some sort of
12	ADAM WEAVER: James, do you allow electronic,
13	like, e-mail vote to approve minutes?
14	JAMES FUTCH: The
15	ADAM WEAVER: Or does it have to be in person?
16	JAMES FUTCH: It has to be in person. The
17	bylaws do not provide for that.
18	ADAM WEAVER: All right. Just curious.
19	MARK SEDDON: Are there anymore lunch
20	JAMES FUTCH: Oh, yeah. Anymore lunches?
21	Anybody who is going to be eating at the Luna Cafe',
22	fill out your menu. Speak now or forever eat
23	somewhere else.
24	CLARK ELDREDGE: Okay. I guess we'll move on.
25	Shall we move on to the Bureau update?

1	MARK SEDDON: Yeah, move on to Bureau updates.
2	CLARK ELDREDGE: Reporting on the Bureau of
3	Radiation Control.
4	So, oddly, for once, for about three weeks, in
5	how many years, we were actually almost fully
6	staffed. We're, you know, 96 percent of our folks,
7	you know. The three vacancies were all technical
8	staff in Tallahassee. So one for James, one for
9	Lisa and one for Kevin. And of course, that did, as
10	I said, that only lasted about three weeks before we
11	had other people vacate.
12	For on the legislative side, we'll talk one and
13	upcoming up in the emerging issues, but another
14	short one, there was House Bills 6011, HB6011,
15	HB6035 and SB340 about international health
16	organization policies. And that bill was to amend
17	Statute 381.00322, which allows government entities
18	and educational institutions to adopt, implement and
19	enforce international health organizations policies
20	and guidelines or requires for them to they can
21	only do that if it's authorized under state law,
22	rule or executive order.
23	The bill would've eliminated those options so
24	that no state agency or educational institution
25	would've been able to adopt or implement any sort of

1	international health organization guidelines or
2	policies.
3	JAMES FUTCH: That was me, sorry.
4	CLARK ELDREDGE: Which runs into the issue, of
5	course, that, you know, ICRP, is that an
6	international health organization? And radiation
7	protection and medical delivery, we certainly use
8	dose coefficients and other standards from ICRP and
9	so that was part of our analysis that we submitted
10	up about the fact that what would that have done to
11	health care delivery and things like that from the
12	university, the state college medical facilities;
13	things like that. Because they wouldn't have been
14	able to use certain things like that if this bill
15	went through.
16	Again, there's no definition about what an
17	international health organization was, but we know
18	there are plenty out there that could've impacted
19	all sorts of health care services and things like
20	that.
21	CHANTEL CORBETT: So that would have impacted
22	what's already in place, not just going forward?
23	CLARK ELDREDGE: Yes, it would have eliminated
24	any
25	ADAM WEAVER: Current.

1	CLARK ELDREDGE: So, you know. What we
2	would've had to do if we had to go recreate all of
3	ICRP research in Florida to be able to readopt it.
4	CHANTEL CORBETT: It would be a while.
5	CLARK ELDREDGE: Yeah.
6	ADAM WEAVER: That would be quite an
7	undertaking, yes.
8	CLARK ELDREDGE: Now, while they were all
9	filed, heard, initial ratings, referred to
10	committees, none of them were heard in committees,
11	so they didn't go very far.
12	KATHLEEN DROTAR: Good.
13	CLARK ELDREDGE: For our environmental group
14	out of Orlando, something impacting them is Crystal
15	River Power Plant's decommissioning has reached the
16	point the environmental sampling will be
17	significantly reduced, which is a source of funding
18	for our field folks. It's going, dropping 90
19	percent or so because, you know, all the fuel's now
20	on site; dry cast. You know, most of the waste has
21	been carted off or other waste has been carted off
22	for deposit. In fact, I think we got, what was the
23	billing? A hundred something thousand in one
24	quarter for low-level waste inspections done
25	basically by 1 FTE. So we have a state law where we

1	go out and inspect all shipments and review and make
2	sure they're packed properly for low-grade
3	shipments. So that was quite a quarter for that,
4	for the folks going and doing that.
5	ADAM WEAVER: That's a lot of shipments.
6	CLARK ELDREDGE: Mm-hmm. What else? So that's
7	basically the crux of what I had for the Bureau
8	update.
9	MARK SEDDON: All right. Thank you, Clark. Do
10	we want to have Kevin give his part, or do you want
11	to start with the in between folks. James?
12	JAMES FUTCH: Let's ask them. Evalee, I see
13	you're on. Is Dayle also on yet?
14	EVALEE TAYLOR: Good morning. I'm not sure.
15	Let me doublecheck and make sure.
16	JAMES FUTCH: That's okay if she's not. We're
17	early for her to start, so we're going to go ahead
18	and go on with the next regular business while we
19	wait. Okay?
20	EVALEE TAYLOR: Okay, perfect.
21	JAMES FUTCH: All right.
22	MARK SEDDON: All right. So we'll jump over to
23	Kevin to give the materials update.
24	KEVIN KUNDER: So radioactive materials,
25	Charles Hamilton's vacant position since last June

L	he left and went over to the x-ray program. I
2	finally got a candidate selected. He'll start May
3	23rd. He's a recent graduate of FSU's Master's
1	program in nuclear physics.

We also recently started a second contract position, so those who have RAM licenses will see the name Julia McRoberts on some of then. She used to work in Oklahoma as a fully certified licensed evaluator. She's also helped out in Mississippi's program, helped out in South Carolina's program and she's going to be working 20 hours until, 20 hours a week until the beginning of July and she'll go to 40 hours a week. So she's, she's really helping us get caught back up.

Rule making, still in progress. Previously mentioned, Department of Health Office of General Counsel's Office returned the entire rules package that we had together since 2019 and requested us to rework it and send it back in individual parts to them. So parts one and two have been sent to legal and we're working on part six now. So no estimates on when that's expected to --

CLARK ELDREDGE: We did get the notice for the part one. It's actually been noticed in --

25 KEVIN KUNDER: Okay.

Τ	CLARK ELDREDGE: That was yesterday. It's beer
2	published in the administrative weekly.
3	KEVIN KUNDER: That's good. Baby steps.
4	Statistics, last month we had 1507 specific
5	licenses; 222 general licenses. That's a total of
6	1729. We continue to average about 200 licensing
7	actions a month and close to 80 RAM inspections a
8	month that we process due to compliance and
9	violations letters out to the licensees.
LO	General, or GL, general license invoices were
L1	mailed out May 1 and they're due back on or before
L2	July 1st. Also, Section 17.20 Florida Statutes
L3	requires each agency to assign delinquent accounts
L 4	to a contracted debt collection agency within 120
L5	days after the dates the accounts are due, so for
L 6	the fiscal year ending June 30th, we've already sent
L7	over 31,000 in delinquent accounts to Transworld.
L8	That's just for the materials program, to Transworld
L 9	Systems, Inc. collection agency for which they've
20	recovered almost half, just over 15,000. So we've
21	still got about 16,000 currently outstanding for
22	just this year.
23	Four medical events since the last meeting.
24	The first was a Y-90 ThereSphere administration. In
25	June of last year, interventional and MAA mapping

was completed. Entire liver was found to be needing
treatment. In July, the right hepatic artery was
injected without issue. The patient came back in
September and had the left hepatic artery injected.
Post-treatment imaging showed uptake in the antrum
of the stomach, which was later estimated at 75
percent of the dose or 97Gy to that part of the
stomach.

The following day the patient was treated for radiation toxicity to the stomach and stayed in the hospital for about three weeks. Patient returned ten days later and subsequently received a partial distal gastrectomy. Findings were the authorized user's failure to visualize the right gastric artery on the pre-infusion angiogram.

Additionally, the site is using recommendations from an international multidisciplinary working group that, that recommended for this particular patient, which was a multifocal bilobar hepatocellular carcinoma without macro-vascular invasion to inject the MAA in the lobe of the higher tumor burden only. So the MAA was only injected in one side.

Other contributing factors are the patient had prior surgeries, including small bowel carcinoid

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1 treatment at another facility with small bowel, liver and omental mass resections. Because of these surgeries in the liver and abdomen, along with some unusual anatomy, it made mapping more challenging.

> And finally, the tip of the catheter was pulled back about five to ten millimeters on the Y-90 versus the mapping.

> The second and third medical events were the same day same facility. HDR for prostate cancer. week prior, both patients had their first of two fractions completed. The site used, used to use two different length catheters, 240 millimeter and 290 millimeter. However, discontinued the 240. On this particular day, the last day of the, of the treatment, the second of the two fractions, when the treating AMP entered the lengths into the treatment plan system, he entered them as 1240 millimeters, which is the one millimeter transfer tube plus the 240 millimeter catheter length and they were using the 290.

> This happened with both patients that day. The full dose was delivered 50 millimeters short into the perineum. Both patients had to be brought back the following week to re-administer the second fraction.

The fourth medical event was the use of an expired Cardiogen generator for about 22 days. The site is on a four-week generator swap. The nuclear medicine tech removed the old generator from the delivery system and placed it back in the storage room in an open box. He opened the new box and took out the paperwork and there's still a certain number of the facilities that don't have the saline bag bar code reader that can actually read the bar code on the generator. So they took out the documents and typed in all the information into the delivery system, which basically resets it to think it's a new generator in there.

He went back in the room, saw two open boxes, grabbed the old one, reinstalled the old one. There was an error about a failure to reach the appropriate activity. He called another nuclear medicine tech over that was a little more familiar with it to help troubleshoot. The first thing she asked him was, are you sure you inserted the new generator? He said, of course I did. There's a new generator in there. She looked and found he forgot to unclamp the tubing from the saline bag. It was unclamped, reset and tried again. This time there was no error.

She doublechecked the outgoing box and found it
had higher activity than she expected. And she just
assumed the time that he had the meter set to
different, different range. So she thought that was
a mistake and didn't say anything.

Since the site had a newer PET CT scan, the images looked fine and it wasn't until the 22nd day after expiration that the system error-ed that the patient's two doses were greater than 20 percent less than what was programmed in there to infuse.

Rule making. Those in the medical, especially nuclear medicine, know there's been NRC rule making on reporting extravasations for medical events. A couple years ago, there was a group that had put forth a bill to Congress that wanted clarification on directing, basically, the NRC providers to report extravasations during PET and SPECT scans as mistakes. So it has reemerged again for this year, 2025.

The NRC has already begun to revise language in its regulations regarding reporting diagnostic nuclear medicine extravasations, which have been exempt since 1980, yet the Commission decided not to include the 0.5Sv tissue dose threshold in ongoing considerations. So we'll see where that goes.

1	Nothing's happ	pened yet si	nce it was	put forth	April
2	1st or April 2	2nd.			

Final note. I just wanted to bring here, we're seeing more of this. Dose splitting. We've had a few incidents, investigations recently that found doses used were being split between two patients as well as several other concerns, technologists calling in asking if splitting doses is okay. The answer can be yes or no depending on three things.

One, if the facility has an ISO Class 5 Primary Engineering Controls within a Segregated Rate of Pharmaceutical Preparation area.

Two, they have submitted procedures for multi-dose vial use including following the USP General Chapter 825 Radiopharmaceuticals.

And the third is if their radio pharmacy contract allows it.

So just note that receiving a unit dose preparation and splitting into two separate doses may only be performed in the ISO Class 5 Primary Engineering Control. That's part of the Pharmacopeia USP Chapter 825 that came out in, I forget, it was the last couple years. I think it was December of 2020 is when it came out. So that's what's required.

1	And that's all I got. Any questions?
2	MARK SEDDON: I think we're good then. Right?
3	All right. Thank you, Kevin.
4	JAMES FUTCH: Thank you, Kevin. Sorry, Evalee,
5	I didn't realize you couldn't probably hear much at
6	all without the microphone. Can you hear us okay
7	now?
8	DAYLE MOONEY: We can, and actually, we could,
9	we could hear that presentation very well. Thank
10	you.
11	JAMES FUTCH: Oh, really? Great. Somebody
12	must have had a mic on somewhere over there. So let
13	me, with the Chair's permission, move on to the next
14	one.
15	MARK SEDDON: Yes, we can move on to the next
16	one.
17	JAMES FUTCH: So we have two guests with us
18	from Tallahassee, I'm assuming, it looks like. We
19	have Dayle Mooney, who's the executive director of
20	the Board of Chiro and several other board offices,
21	including radiologic technologist licensure and also
22	EMTs and paramedics.
23	And with her is her programs operations
24	administrator, Miss Evalee Taylor, who is part of a
25	new role inside the board office that Dayle, I'm

1	sure, will tell us about, which will have her
2	playing a much greater role for the radiologic
3	technologists.
4	And we have here in the room with us the normal
5	amount of Council folks. Hopefully you can see some
6	of them. We have two microphones, so if folks want
7	to ask questions, we'll be sharing those with so
8	that they can hear us better. And I'll turn it over
9	to you, Dayle, and take it away.
10	DAYLE MOONEY: Thank you so much. First of
11	all, I'd just like to say thank very much for
12	including us in the meeting today. I know this has
13	been something that we have tried to coordinate and
14	based off of scheduling conflicts at past meetings,
15	it hasn't necessarily been successful, so I'm really
16	glad that we're able to join you all today.
17	As James said, my name is Dayle Mooney. I'm
18	the executive director for a multi-profession board

As James said, my name is Dayle Mooney. I'm the executive director for a multi-profession board office that includes chiropractic physicians, optometrists, nursing home administrators, clinical laboratory personnel, medical physicists, EMTs, paramedics and last, but certainly not least, radiation technology.

We have done some pretty extensive reorganization within our office over the past six

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months or so in order to meet what we think is an increasing need or dedicated staff that specializes in radiation technology applications. We're happy to say that we accomplished that by moving some of our most senior processors into those roles. These are individuals that already had experience working radiation technology but had other duties that were assigned and we reassigned those duties away so that they were able to solely focus on that.

We also moved the program under the direction of the program operations administrator, which is now a role that's filled by Miss Taylor and -- so that we could have a higher level of management overseeing the implementation of radiation technology and making sure that we are really staying current and coordinating really well with our policy office.

So we think that we're already going to be seeing some improvements in our processes. As I'm sure that you guys are all aware, that licensure processes is ever involving. There are changes to that based off of laws that may or may not impact. There's also improvements based off of feedback that we're getting from applicants and I know that it might have felt a little stale in the past that we

1	have that your concerns hadn't necessarily fallen
2	into action and we think well, we hope that
3	you're gonna see a lot more of that in the very near
4	future and have some things that we've already done
5	in order to answer those needs.

I'm gonna let Evalee do a lot of the next presentation. She has really kind of jumped in with both feet and gotten very connected with this program in the short amount of time that she's been there. I'm really proud of the work that she's already managed to accomplish and some of the things that were really getting off the ground. And I think that she, and hopefully James will agree, that we're integrating nicely together and starting to create a good line of communication so that we can really get things moving forward.

So with that, I'm going to turn it to Evalee, and then we can take questions at any point, so if you guys want to jump in and ask us questions, then we can do that. Evalee's got some data for you, as well as some feedback on what kind of our perspective is from the certification office on kind of the state of affairs at present.

EVALEE TAYLOR: Thank you so much for the opportunity to be a part of this meeting. As Dayle All Good Reporters, LLC 407.325.0281 www.AllGoodReporters.com

said, I have prepared some data. James and I and
Giovanna and Kelly, we meet most Wednesdays and we
discuss some of the data that you guys may be
interested in hearing. And then also, James made a
suggestion to kind of give you guys an idea of the
nuts and bolts of applying for an application you
know, applying for certification and the process and
how that works. So my thought on that was to kind
of get an example of the life of an application, so
I will start with the data first.

And currently, we have a total of 594 open, valid applications. Meaning applications are only valid for six months, so these are all applications that have been submitted since November 1st. So I'm giving, like, a two-week movement there, flexibility. But a total of 594 open applications.

And then some of our current, like right now we have -- our total number of clear, active license are 30,623. And as you guys are aware, renewals have been based on birthdates, so we are in constant renewal of all 30,000 of these licenses. And then some of our data is based on fiscal year 24-25 and I split it up into some of the quarters, especially quarter three which, of course, we've just finished out two months ago, just to kind of give the most

1	updated information.
2	And to start with, for fiscal year 24-25, for
3	the first quarter, we had a total of 707
4	applications. For the second quarter, a total of
5	548; and then for the third quarter, the most recent
6	quarter, 863. For a three-quarter total of 2,118
7	incoming applications.
8	JAMES FUTCH: Evalee, can I interrupt you just
9	a second? We've got the court reporter in the room.
10	She's trying to follow along.
11	Rita, what were you
12	THE COURT REPORTER: Have her sit closer to the
13	mic.
14	EVELYN: I can also send you, James, I can send
15	this to you, so that way if she wanted to have the
16	most accurate version of the numbers I'm saying, I
17	can do that if that's clearer.
18	JAMES FUTCH: Okay. Are you able to share from
19	where you're at or is that too hard?
20	THE COURT REPORTER: Or have her sit closer to
21	the mic. She's kind of muffled.
22	JAMES FUTCH: Yeah, there's a little bit of a
23	tinny maybe if you sit a little closer to the
24	laptop if you're working off the laptop. And also,

Rita, I've got recording this whole thing.

25

Τ.	EVALUE TATLOR. SOLLY. Here we go. I do
2	have so this is the data that I'm going over.
3	And then for quarter three, there a lot of this
4	will look like foreign language, but the numbers are
5	really the most important. And for the average day
6	to issue a license from the application date. So
7	this doesn't necessarily mean how long it took us to
8	process a document. This is from the day that they
9	apply to the day that we issue the license. The
L O	average day is 41.13 days.
1	For the average to process an initial
12	application, meaning the application is submitted
13	and a processor from the office reviews the
4	application and all the supporting documents for the
L5	first time, the average is 11 days. And there have
L 6	been a total of 897 from, the original 897 from
17	January 1st through March 31st.
L8	DAYLE MOONEY: Evalee?
19	EVALEE TAYLOR: Yes.
20	DAYLE MOONEY: Can I just I want to clarify
21	one thing on the M1 data, the 41 days. So and I
22	think it's important to notate here, our
23	calculations are based off of the first time an
24	application is submitted into our system to the date
25	that it is ultimately approved, inclusive of all

1	applications in this timeframe. This data also
2	includes things like when an applicant submits an
3	application but does not pay. And so then they
4	might come back in a week later and pay for that.
5	So their first if that application, if that
6	ultimately is approved, then it is included in our
7	calculations here. So 41.13 is an average, but
8	there are a lot of outliers within that that's gonna
9	bring us down to that 41.
LO	Our performance goal is, you know, we try and
L1	keep that under 49 days, but that's for all
12	professions. I think that Evalee and I would like
13	to see that number a little lower than, than the
L 4	41.1. And I will say that it is trending down. And
L5	when we get together next, we'll have some trend
L 6	data for you, but we've done a lot of data cleanup
L7	lately and did not feel confident in previous data
L 8	to give you an accurate trend, so we'll, we'll get

that ready for you for the next time.

But I wanted to just clarify. These numbers are good numbers for us, but they can also be misleading. It is definitely not typical for it to take up to 41 days for your -- for an applicant that applies online, pays and has a complete application.

EVALEE TAYLOR: Right. So the other dates that

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1	are all the 11 and the 2.54 and the two dates, those
2	are ones complete or ones so a lot of times that
3	41.13 is just that it stays efficient. We didn't
4	have it wasn't a complete application. So, so
5	that total, that average is different than the three
6	averages underneath them. The three averages
7	underneath those are based on our processing rate,
8	not just how long it takes an applicant to get their
9	application file complete.

So the 2.54 days and the two business days, that's how long that the average, during the third quarter, that it took our processors to approve or deny applications once complete. So I think that this data can show that while sometimes it can take a while for an application to be complete and approved, it's not necessarily on the processor side of it, because our data shows that we're, we're processing in less than three days and approving in less than three days once complete.

JAMES FUTCH: So Evalee, just to make sure I understand because I'm getting some questions from the room around me. The quarter three is basically January 1 through the end of March. That's what we're talking about?

EVALEE TAYLOR: Yes. Yes.

1	JAMES FUTCH: Okay. And these are just the
2	applications that will be considered to be not
3	expired by statute. So basically, the ones that
4	we've received, looks like, since November 1st,
5	2024.
6	EVALEE TAYLOR: Yes.
7	JAMES FUTCH: Okay.
8	EVALEE TAYLOR: The total apps that are open
9	currently. I used that as the date, even though
10	that first
11	JAMES FUTCH: Right.
12	EVALEE TAYLOR: twelve days of November, if
13	they submitted it then, would be considered expired
14	at this point. I wanted to give some freedom, some
15	flexibility there because sometimes, there will be a
16	few outliers that may not be completely expired.
17	You know, maybe they submitted their document three
18	days before their application expired and we just
19	haven't had a chance to process it yet. So I
20	included a few extras
21	JAMES FUTCH: Sure.
22	EVALEE TAYLOR: based on that.
23	JAMES FUTCH: And to that
24	EVALEE TAYLOR: It's pretty close.
25	JAMES FUTCH: to that I wanted to add that,

1	you know, when folks reach the end of that time
2	period, we don't just like, you know, toss them out.
3	In fact, Giovanna's been going through the, the
4	minutia of the folks at the far end of this just to
5	make very, very, very sure that every single person,
6	you know, didn't submit something some place that
7	got stuck in a, you know, an e-mail box before she,
8	before she turns it back over to, to Dayle's group
9	to say, yes, I think these are truly ones that, that
10	don't meet the statute requirement.
11	EVALEE TAYLOR: Right. She's definitely

EVALEE TAYLOR: Right. She's definitely

been -- that was one of the assignments that she and

I discussed and decided that would be really helpful

just in case there were any that, like you said,

that had submitted the document but it somehow got

missed or for whatever reason, just to make sure

that before their application is expired in the

system, that it is truly expired.

And so, that being said, I will give you guys just a little bit of an overview of the life of an application. And part of that is what happens if an application does expire before it's able to be complete.

So when an application is submitted, if the applicant submits the applicant online, then -- and All Good Reporters, LLC 407.325.0281 www.AllGoodReporters.com

pays and submits all their supporting documentation
and has already passed the exam, we are able to
approve the certification, approve the application
on first initial review. That is much easier, much
more timely and much more efficient on the processor
side of it.

But then, of course, that's not always feasible. Sometimes people submit an application and like we were talking about it expires, then they have to send in a paper application because the system will not allow them to apply online twice.

So when an application is submitted through the mail with a payment, it goes to a separate department -- the finance department -- and they do what they do with the check and then they forward the actual application over to a contracted partner that we have.

They input the application; they make sure that it shows up in our imaging system and then it's routed back to our office and the payment is attached. So paper applications may get through at least three locations before we're even able to process them and then at that point, they show up on the same report as the online applications and our processors are able to go in and do that -- conduct

that initial review and send the initial deficiency
letter with anything that may still be needed. And
then at that point, the applicant is able to or
an approval letter, if everything is there. Those
are the best.

But if a deficiency letter is sent, then the applicant has the opportunity, up to six months, to submit all of the deficient documents, whether that be their Social Security number, their driver's license, passing exam scores; verification of their other state license.

You know, the deficiencies vary, but they have six months to submit that documentation. And then there are multiple ways to submit that. Documents can be uploaded to the online system. Documents can be e-mailed. We have a fax number. We also receive paper mail these days, still very little for Rad Techs, but we do. And then the processors gather all of their documents and add it to the file and conduct a second or third or fourth review of the file until it is complete.

And every -- when we review a file, a new document is sent, an updated deficiency letter to let the applicant knowing anything that's still outstanding and the process continues until either

1	we get all the documents and we're able to approve
2	the application, or like I said before, or it
3	expires.

And there are all kind of varying things or delays that could come up during the process. And one of the things that we talked about was kind of going over the top deficiencies.

So probably the biggest deficiency that we see is an applicant that has not applied the correct way. Meaning they chose a different pathway or a different method of qualifying than what they necessarily need to. A lot of times, applicants will apply for an exam when they already have their exam scheduled. So really, they probably should apply by endorsement or even wait until they've passed the exam and then apply by endorsement.

We also have applicants that do not receive their education in the United States and then they apply for endorsement when they should have applied for exam. So we see a lot of that.

Choosing the correct modifier, the correct pathway, the correct type of license, even, honestly. Apply for GR when they meant DXMO or vice versa. We see a lot of that deficiency. And unfortunately, getting the corrected application

1	back from the applicant can also turn into an
2	additional delay, because a lot of times, the paper
3	application will confuse applicants and they still
4	won't necessarily submit the information that we
5	need. So even though they've submitted the
6	corrected application, we still have to send another
7	deficiency letter to let them know that the way they
8	submitted it is unacceptable or it still needs a
9	update.
LO	KATHLEEN DROTAR: Evalee, this is Kathy Drotar.
L1	EVALEE TAYLOR: Yes.
12	KATHLEEN DROTAR: Hi. And that, I know, is a
L3	big concern because a lot of times, a new graduate,
L 4	the question asks have you, have you had previous,
L5	or have you had a certification. And in truth, they
L 6	haven't had one until now. And I think that, you
L 7	know, a couple of the questions, the way they're
L 8	worded, I think adds to that confusion. So just,
L 9	you know and I understand why it happens. And,
20	you know, they're graduates. We've tried our best
21	to advise them on how to say, yes, you are ARRT.
22	But I think they, you know, they get away from us
23	and lose that perspective.
24	EVALEE TAYLOR: Oh, absolutely. We're
25	currently working on updating so the questions

whenever we first get in an application, there are
questions that are called suitability questions.
And it's the purpose is to kind of field the, you
know, ask questions to make sure that the applicant
knows exactly that they're applying for the right
pathway to the right method of qualification.

The current question or questions that are available that are asked aren't the most efficient and I don't think that they pull the red flags or the yellow flags that they maybe should, so we are working on updating those. We have some of them drafted, but we really want to make sure that we don't add extra steps to an application that aren't necessary, but also that we catch all of the things that can cause delay and that we've worded it in such a way that it will be easily understandable and clear, because I'm one of those people also, when I go to read something, if it doesn't make sense to me, I'm probably going to pick the wrong one, too, honestly, just because I will read too into something and not quite get it as clear.

So we want to make sure and have -- I'm real big about trying to use the rule, the Florida

Administrative Code and keep that same language, but make it clear. So that that way, we're asking

1	exactly what we need to ask. But also at the same
2	time, that the person were asking understands and is
3	able to give an accurate answer.
4	KATHLEEN DROTAR: Thank you. If you need
5	EVALEE TAYLOR: The ultimate goal
6	KATHLEEN DROTAR: If you need a base to test
7	it, let me know.
8	JAMES FUTCH: Kathy is offering all of Keiser's
9	schools, I think, to be the testers.
10	DAYLE MOONEY: We worked when we developed
11	these suitability questions, we worked very closely
12	with James' team. We can certainly, you know, feel
13	them out. And these are the suitability
14	questions are preliminary questions. They're like,
15	are you ready to apply? They don't prevent you from
16	applying and they're not actually application
17	questions.
18	The questions that are on the actual
19	application are questions that are based off of the
20	application that's incorporated into the rule by
21	reference and have force of law. So making those
22	changes is a little bit more laborious of a process,
23	so we feel like we can either get there quicker by
24	adding some helpful hints inside the actual
25	application or asking the front-end questions of, is

1	this the right pathway and if you answer they're
2	yes and no questions. And if you answer yes, then
3	no problem. If you answer no, it will say, you may
4	want to back up and apply this way. You may want to
5	back up and do this. Or if you're not prepared to
6	give us this information, if we say, are you
7	prepared to give us a copy of your current ARRT
8	certification? Yes, great. No, please be aware
9	that failure to be able to provide this information
10	could result in licensure delay. Just so that
11	applicants have that awareness that this is a
12	required element and if they don't do this
13	correctly, then it could be, you know, it could
14	cause some issues for them.
15	So we think we're gonna fine tune those. Those

So we think we're gonna fine tune those. Those are fully within our control. They don't have force of law because they don't actually stop someone from moving forward with an application, but it's a -- we find with other professions, that it's a good way of reducing frequent deficiency items.

JAMES FUTCH: I wanted to -- I don't want to interrupt you, Evalee, if you had more that you were going to go forward with. I wanted to back up and give a little bit of a 30,000 foot overview.

25 The profession became -- we started, entered

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into this relationship with MQA in 2005. That's when the initial set of online applications was put together and as Dayle very rightly said, the paper application, which was the thing that's incorporated in the rule, is what we have to mimic online as best as possible.

In past experience with changing rules, as this committee knows, just changing one or two simple aspects of CE took, I think, two-and-a-half years to get through a rule change, so there is much room for improvement.

I know MQA is moving to a new system at some point. I'll give you a basic example of some of the ways things are implemented in the application. If you want to apply to become a general radiographer, the first question that is asked of you is, do you want to apply to become a general radiographer? However, if you want to become, let's say, a mammography tech, the system is set up first ask you, do you want to become a mammographer? You say yes or no. If you say no, then it asks you if you want to become a nuclear medicine technologist. And you say no, and so forth and so forth in a very linear fashion until you get to what we think is the smallest number of professionals who could probably

1	want	to	apply	for	the	thing	that's	seven	layers
2	deep.								

If it were possible back in 2005 to do it differently, they would have. Going forward, we're hopeful there will be latitude that will allow, for example, perhaps a screen where you check box, hey, which one of these things do you want to apply for, something like that.

We got to the place that we're at right now, though, because basically, there was a shortage of some staff -- very important, very highly skilled staff left in the middle of last year and that caused a workload issue that Dayle's group started to respond to. And given the way things worked and the time it took, there was extra work to go around, so processing -- some of my staff were data processed to help out. A whole bunch of EMT paramedic staff learned how to process because they're, what is it, twice as big as us or three times as many licensed professionals.

So all of that hit around June, July of last year. And at one point in time, I know Kelly and Giovanna, I think, I forget how many they were doing in a week, but a lot of people, and all of us became acutely aware what the processors had probably known

for a long time, that there's room for improvement.

One of the things from my perspective is to -and by the way, for Kathy's assistance as the

President of Florida Society of Rad Techs, we have
an upcoming Teams meeting with Dayle and her staff
and all of the program directors that Kathy can
wrangle.

KATHLEEN DROTAR: In the State of Florida.

JAMES FUTCH: In the State of Florida. Not national. Just in the State of Florida. Seventy some odd possibilities. To do a meeting like this, and talk directly from the folks who are giving us the applicants, to the folks who are processing, to help figure out some more of optimization of the pathways and how best to do it.

My personal feeling is perhaps shared by some of the others. Is if you apply, what happens if you apply by exam is, 99 times out of a hundred, you're going to go -- people want to become licensed by the national registry, ARRT or NMTCB. They apply for perhaps both. They're going to get set up by ARRT, so that literally on the day after their graduation, they've already got probably their exam scheduled. And they're going to know the pass or fail unofficially as soon as they get finished at that

testing center on that very day. And they b	ecome
official three days later and get their lice	nse
electronically, typically within a week onli	ne.

The application by exam, I think is mostly used because people think, oh, I'm going to get a temporary so I can go to work on the first day of my graduation. And that's an archaic holdover from years gone by from when tests were only available twice a year, paper and pencil, so you had a temporary to cover you for the six months it took you to get to the next exam.

That's not typically what happens. What does happen is they get licensed by ARRT and in the process, when they are sent by us, let's say we actually got them through the process. It was one of Evalee's completely -- everything was there, there was no delay, no deficiency letters had to be sent and we managed to get them processed and we sent them to ARRT on the same day or maybe a day after.

When ARRT gets that application from them, they will only let them take that test, that ARRT exam which they're administering for us as the state candidate, they will only let the applicant take it from one or two organizations. They will not let

Τ	them take it and have it count for both. So they
2	ask them, do you want to convert and take this as an
3	ARRT candidate? What would you all say?
4	KATHLEEN DROTAR: Yes.
5	JAMES FUTCH: It's the national registry. Of
6	course you want it to count for the national
7	registry. They will not accept you being licensed
8	by the State of Florida first by endorsement into a
9	national registry license. You will have to take
L 0	that test again. Same test. You will have to take
L1	it again if you want it to count for ARRT if you
L2	don't pick ARRT to begin with.
L3	The next thing that happens is, because of some
L 4	changes that have happened over the years, and I
L 5	think this is in the contract, we don't find out
L 6	about the results once you do that from ARRT.
L7	They're not going to send us your score.
L 8	Hopefully, in talking to ARRT, certainly by the
L 9	time we get to the next contract, we will have them
20	put in some language, perhaps, so that they say,
21	hey, we will still send you the scores to your state
22	if you want us to, if you release them to the state
23	for, for that purpose. But that's an improvement
24	for the future.
2.5	Anyway, that's the, the larger 30,000-foot

view. So hopefully, out of the next month or so, certainly by the time of the next meeting, we'll have a pretty good idea of what else can be done to fine tune things inside the system on the state side, and the program directors will have a better idea of how to handle things on their side if there is a better way.

KATHLEEN DROTAR: So most --

DAYLE MOONEY: And James, I don't want to steal Evalee's thunder, but that you just discussed right there, that distinction between basically the translation of what happens at ARRT when they apply and as a national certified license, licensee, over to Florida, that changes the nature of our application type down here.

So if you've applied for a temporary, then you would need to either withdraw your application or send us some amendment so we could change your application type, move the money over; do a whole bunch of things on our end. That probably is our number one. And so I think that the suitability question that we're trying to ask here for those applicants that are telling us that they want to apply by examination, is are you currently scheduled to take your ARRT exam or have you already taken it?

1	And if you answer yes to that question, then we're
2	gonna say, you may want to back up and apply by
3	endorsement then, so that we're not changing the
4	type.
5	Yes, then the applicant will need to tell us if
6	they will need to prove to us that they are
7	currently ARRT certified by sending us their
8	certification, we can go check their certification
9	status and we do that. And if we have any trouble,
10	then we would talk to the applicant and see if they
11	can provide us with that documentation. But we
12	believe that that will fix probably our biggest hang
13	up with licensing for Rad Techs.
14	KATHLEEN DROTAR: So what happened in the past
15	is when we first went electronic with the
16	applications, our instructions were to apply by
17	exam. And that changed probably about five years

exam. And that changed probably about five years ago, and so we're telling people to do it by endorsement now. But, you know, what you see on your end is another story.

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DAYLE MOONEY: Well, and it gets really confusing for people, I can tell you, because it's, it's kind of a drop down screen and they get to go pick. So in the stress of the moment, or just have forgotten what they had been previously instructed,

1	mistakes will happen. And people will say, I'm
2	taking an exam, so I need my license by examination
3	And not necessarily drawing those distinctions
4	between the definitions that we have at the state
5	versus what is national versus what's common
6	knowledge on the street, because we all speak
7	different language.
8	KATHLEEN DROTAR: True.
9	JAMES FUTCH: Another thing that changed some
10	years ago, this was not as much of a problem when

years ago, this was not as much of a problem when this conversion to state candidate happened, because there is a national site that all the states can see ARRT test results and not have to depend upon it straight from the, from the applicant.

And we used to see the results from anyone who had a Florida address would show up there, even if they converted to ARRT. But I figure, or I feel at some point, legality, the lawyers on the other end probably said, oh, that's not the best idea.

If we can somehow talk to ARRT so that we actually still get those, and again, my thought is, can you please just ask them in this process where you're electronically saying, converting over to an ARRT candidate, you know, by doing this, do you wish to have your scores sent to Florida. Then it would

1	appear in that, in that site and we'd be able to
2	easily find them and finish the process on the, on
3	the exam side.
4	We must have talked about everything. There's
5	nobody saying anything. Oh, wait a minute. Chantel
6	has a question.
7	DAYLE MOONEY: Evalee, I think we kind of took
8	a tangent. Did we cover everything that you wanted
9	to cover?
10	JAMES FUTCH: I think so. We have a council
11	member who has, or had a question. Did we scare you
12	away, Chantel?
13	CHANTEL CORBETT: No, no, no.
14	JAMES FUTCH: She can't hear you. Try the mic.
15	CHANTEL CORBETT: You're assuming that. I can
16	talk loud.
17	The question is whether if you have a current
18	radiological technologist license and you're seeking
19	a second license category. Is that now available
20	online or are they still have to submit those on
21	paper? So if they have a nuclear medicine license
22	and they're now seeking their CT license.
23	JAMES FUTCH: By the way, this is Chantel
24	Corbett, our nuclear medicine technologist council

25

member.

1	CHANTEL CORBETT: Candidate.
2	DAYLE MOONEY: So I believe that that is an
3	online process. I mean, it's a paper process
4	currently, but we are looking to enhance and I'm
5	going to reserve the right to correct myself between
6	now and two weeks from now if that is inaccurate,
7	but my, if my memory is serving that, yes,
8	unfortunately, it is still a paper process to add a
9	modifier to an existing license.
10	CHANTEL CORBETT: Is that considered a modifier
11	or a second license?
12	DAYLE MOONEY: It would be. If you're adding
13	it to a previous license, then you then it would
14	be an addition. There's some that you can add
15	sometimes, James.
16	JAMES FUTCH: Chantel, I'm sorry. I missed the
17	category that you asked. What was the situation?
18	CHANTEL CORBETT: If they're nuclear medicine
19	already and you're adding CT.
20	JAMES FUTCH: And you're adding CT. Oh, I see
21	why you're asking that.
22	CHANTEL CORBETT: Because it's very unclear.
23	DAYLE MOONEY: It's unclear what the underlying
24	license is.
25	JAMES FUTCH: It should be considered an

1	additional license because what you're talking about
2	with
3	CHANTEL CORBETT: What's what I thought.
4	JAMES FUTCH: the full CT is to do the full
5	diagnostic imaging, not just the coefficients for
6	laying nuclear medicine data in the
7	CHANTEL CORBETT: Right.
8	JAMES FUTCH: landmarks of the body.
9	CHANTEL CORBETT: Correct.
10	JAMES FUTCH: So they won't have that that's
11	why it is an additional license. It should appear
12	as CT on the license when they're done.
13	CHANTEL CORBETT: Correct. But the problem
14	right now, it's only provided by paper, so it's
15	still a longer process. I didn't know if that was
16	in the works to put that availability online or not.
17	JAMES FUTCH: We'll have to take a look.
18	EVALEE TAYLOR: The modifier for recent
19	transactions is available online, but our system
20	does not allow for someone to apply online for the
21	same, we'll call it profession code. So if someone
22	already has a license and applied online, it's not
23	going to allow you to apply online for the same type
24	of license.
25	CHANTEL CORBETT: Right. And the type of

CHANTEL CORBETT: Right. And the type of

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1	license
2	EVALEE TAYLOR: It's the same as an expired
3	applicant.
4	CHANTEL CORBETT: Right. When you're saying
5	the same type of license, that's everything under
6	the ARRT umbrella, correct?
7	EVALEE TAYLOR: Yes.
8	JAMES FUTCH: So ARRT's are in the profession
9	code 7601 and radiologic assistants, for example,
10	like Rosevelt, they're in 7602.
11	CHANTEL CORBETT: Yeah, because we've had a
L2	couple people had their applications in and
L3	DAYLE MOONEY: However, the ability to do
L 4	anything that you need to do with your license is,
L5	including, you know, applying for things, additional
L 6	licenses that are legally authorized for you to
L7	have, is on our list of requirements for the next
L8	licensure database that we have just contracted a
L 9	vendor for and should be having a system replacement
20	in the next you're going to kill me when I say
21	this because it seems like it's so on down the road,
22	but it's really not the next two to five years.
23	CHANTEL CORBETT: I was going to say ten.
24	DAYLE MOONEY: So we, we have a selected
25	vendor. The State's gone through a very, very

1	public process in order to find a new vendor to
2	replace our current licensing database and that
3	individual has just been selected. I have not seen
4	the system, myself. We went through some
5	extensive well, a wish list and want list and
6	demand list was. And what I'm told under very good
7	authority, by people both on the licensing side of
8	the house and on the tech side of the house, is that
9	we're gonna get all of our wants and all of our
10	demands.

The entity has been retained and we are moving very quickly now. Their timeline, we said, we're ready to roll this out in five years. And they said, well, we'd like to do it in a year and we said, hold on just a minute. We're talking about millions of licensees. Can we find a happy compromise so we're not rushing the process too much? But we're getting it done as quickly as possible.

So I do think that we're gonna see some enhanced capabilities in the very near feature and I think we're already looking at ways that we can do business more efficiently in the interim with the system that we have.

JAMES FUTCH: And Dayle, that system would

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cover everybody in the room that's a licensed health care professional, right?

DAYLE MOONEY: Absolutely. And it shouldn't look any -- well, it should look easier for anyone that is a current licensee. But we're not talking about, you know, obviously, there's not going to be any additional work that's necessary. We will do all of the data migration from one system to another and, you know, the roll out to the, to the licensees should be minimally impactful and then the next time you go to renew your license, it should just be easier. And the next time that you need to go do something for your license, it should be easier. And things should, should be better. There's a lot of shoulds in that sentence, though.

JAMES FUTCH: It sounds like dollar signs to me, but --

DAYLE MOONEY: It's a very high-dollar project and rightfully so. I mean, this system maintains the livelihood of a whole lot of people.

JAMES FUTCH: It's part of the deliverables and I'm sure every executive director will ask you this, will you be able to apply more than once online before you have to go to paper or will you go to paper at all?

DAYLE MOONEY: Certainly was our hope and on
our wish list and our demand, kind of on our demand
list, we want to be a paperless system. We don't
want to receive things in paper. We don't want
people to have to mail us checks and money orders
and download paper applications if they choose or
want to.

We will always -- I think we're always going to have to have the ability for people to do that, but we certainly want everyone to be able to apply online. That's what our preference is. We don't like paper applications.

MARK SEDDON: I have a question. So for -- do you guys provide segmentation of our data regarding clean versus applications with problems? And also, if you have a -- as far as how long it takes for somebody. Obviously, like you mentioned before, you know, like three days' turnaround for a clean application versus, you know, ones with problems.

I'm curious for those applications, those problems where they have to resubmit numerous times, if there's categorizations of, from new graduates versus people from out of state, how that looks as far as what their timeframes are.

DAYLE MOONEY: Um --

Τ	JAMES FUTCH: Mark, do you mean from a
2	reporting standpoint?
3	MARK SEDDON: From a reporting standpoint.
4	DAYLE MOONEY: We probably could get that
5	information. You know, it's certainly something
6	that we can we don't routinely segment our data
7	that way. We, we very likely could do an ad hoc
8	report and ask for that level of data. I'm not a
9	hundred percent sure how helpful it is.
10	Our anecdotal information is that we probably
11	see the same number of new grads versus out-of-state
12	endorsement applications that are and because we
13	have new grads that are applying by endorsement,
14	it's difficult to really once you get to
15	endorsement versus licensure by examination, I can't
16	distinguish from someone that is an out-of-state
17	licensee that is truly endorsing in, or a recent
18	graduate of a Florida program that has national
19	certification that is applying by endorsement.
20	MARK SEDDON: Because anecdotally, again, this
21	is not about data, is we hear, at least across my
22	facilities, that out-of-state applicants taking
23	significantly longer to be processed. So I was just
24	curious if you guys had data on that or not, so
25	DAYLE MOONEY: I don't have that level of data

1	currently. We can look and see, but again, I'm not
2	sure that we're gonna need because it's
3	endorsement, I can give you I can ask them to run
4	me reports off of a transaction type. So if it's
5	licensure by endorsement, I can get that level of
6	data. I don't I can't readily or reliably
7	subdivide that data down to say this person was an
8	out-of-state educated individual that's coming in.

I will say that there are, probably anecdotally, there are a lot of people that come in that don't, because they don't have Florida program directors that are assisting them in the application process, that they don't give us copies of licenses, they don't give us their national certification, they don't give us copies of their driver's license; they forget their Social Security number. There are quite a few deficiencies in those applications. I don't know if they're any more than the number of Florida graduates that apply by examination when they want to be -- when they should be endorsements.

MARK SEDDON: And that was my point is just is there a way to identify what -- or is there really a problem and what -- whether it's a commonality for the out-of-state folks, but it sounds like you do have some awareness of that, so --

Τ.	DAMES FOICH. I also wanted to say, by the way,
2	that was Mark Seddon, the medical diagnostic nuclear
3	physicist from Advent Health, one of the council
4	members in the nuclear physicist position.
5	All of us, I think, as council members, if, if
6	you need any help or assistance or other
7	information, we're always happy to bring it back to
8	the council. This particular council is very
9	available to us in between.
10	And I saw a second ago somebody said our
11	meeting was five minutes away from closing. Also
12	lunchtime. So I just want to throw that out in case
13	you disappear entirely, that's what happened.
14	I wanted to thank you for coming and for doing
15	this and really looking forward to the meeting with
16	the program directors on later this month.
17	Something that Mark was saying. I'm trying to
18	think, for people who are applying we were not
19	covered by the Mobility Act, which passed last year,
20	which would've, I think, probably resulted in, in a
21	much greater improve of folks not being able to be
22	certified who were coming in by endorsement, so
23	we're very fortunate in that.
24	And the big game is town is ARRT and to a
25	certain extent, NMTCB for the nuclear medicine

1	folks. Other than the fact that people who are
2	coming from other states tend to be older and in the
3	profession for a longer period of time, they might
4	have difficulty finding some of those old documents,
5	that's about the only reason it might show it. But
6	in the new system, Dayle, hopefully there will be
7	excellent mechanisms by which to track data on
8	deficiencies and nail it down, you know, like we do
9	trying to go look anecdotally to see what's going on
10	from looking at the
11	DAYLE MOONEY: I mean, we have data on our
12	we have data on deficiencies, like, what our top ten
13	deficiencies are, but they're it's not, not as
14	easily segmented out as what we're looking for here.
15	JAMES FUTCH: Sure.
16	DAYLE MOONEY: I have a note and we'll see if
17	we can't get to that point and if we do, we'll
18	certainly report back here and so we can share that
19	information out.
20	JAMES FUTCH: Anyone else have any questions
21	for Dayle or Evalee or both or the process in
22	general?
23	Ladies, do you have anything else to ask us or
24	can share?
25	DAYLE MOONEY: Evalee, did we hit all your

1	bullet points?
2	EVALEE TAYLOR: Yeah. I mean, as long as
3	everybody got their questions answered and most of
4	the things, most of the sensitive data James wanted
5	to be included and presented, if everything was
6	touched on, I'm good on mine.
7	JAMES FUTCH: Okay. Well then, thank you very
8	much from the group. And we look forward to seeing
9	you at future meetings and we'll say goodbye now.
10	MARK SEDDON: Goodbye.
11	JAMES FUTCH: Thank you.
12	DAYLE MOONEY: Thank you. Bye bye.
13	KATHLEEN DROTAR: So on that mobility law last
14	year
15	JAMES FUTCH: You can shut it down, Josh.
16	All right. Sorry, I'm going to give a big
17	exhale right now. That this actually worked.
18	KATHLEEN DROTAR: Yeah.
19	JAMES FUTCH: There's a lot to be said about
20	hybrid meetings and getting sound to go back and
21	forth. But that was, that was very good.
22	I'm sorry.
23	KATHLEEN DROTAR: That's okay. No, on the
24	mobility thing, a lot of credit goes to FRS for
25	assisting with getting to the right people to get

1	that language removed for, for radiologic
2	technologists.
3	JAMES FUTCH: And at some point in the future,
4	they may come back with the second bill from last
5	year, which was the fingerprinting. Fingerprinting
6	background. I think we're one of the few that's not
7	included in that.
8	KATHLEEN DROTAR: Yeah.
9	JAMES FUTCH: And that may be coming in the
10	future.
11	KATHLEEN DROTAR: That's not a biggie.
12	JAMES FUTCH: All right.
13	MARK SEDDON: All right. So I know we want to
14	adjourn for lunch or
15	LISA GAVATHAS: We have a rain band coming, so
16	if we want to walk to lunch, we might want to go
17	pretty quickly.
18	JAMES FUTCH: Did you bring an umbrella?
19	Sounds like noise.
20	LISA GAVATHAS: I didn't bring one. Right now
21	it's dry. I just walked over there. I walked down
22	through the grass and it was fine, but
23	JAMES FUTCH: All right. So bring your
24	galoshes and your umbrellas.
25	LISA GAVATHAS: I told them we'll be there

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like, by 12:15, so --
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 2
               JAMES FUTCH: We're coming back when?
 3
               MARK SEDDON: We're coming back at 1:30.
          Everyone make sure you'll be back here by 1:30. The
 5
          room will be locked while we're gone.
               (Proceedings recessed at 11:56 a.m.)
 6
 7
               (Proceedings resumed at 1:25 p.m.)
 8
               MARK SEDDON: All right. I guess we can go
 9
          ahead and get started. It's almost that time, if
          that's okay. We have everyone here. That way we
10
11
          can get done in time.
12
               So we'll go ahead and start with Lisa to do the
13
          radiation machine update.
               LISA GAVATHAS: Okay. I'm not going to take up
14
15
          much time because Mark has to talk for a while. So
16
          mine is going to be really short.
17
               JAMES FUTCH: Mark just said take all the time
18
          that you need. Go right ahead.
19
               ADAM WEAVER: Take all day.
20
               MARK SEDDON: Take as much as you want.
               JAMES FUTCH: Especially since I don't have his
21
22
          presentation on here yet.
               LISA GAVATHAS: Okay. I'm going to take these
23
24
          off because I can't read.
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I'm going to start with staffing. First of
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1	all, we hired someone in my place. It was the
2	environmental health program consultant who was the
3	MqSA coordinator for the State, and that is Camilla
4	Guy. I think probably all of you have met her at
5	one of our previous meetings. She filled in for me
6	a few times. And she's very hard worker. Really
7	good.

We also have some really bad news. Strohman. I don't know how many of you have talked to Tracee. If you've done any registration through the state, you've probably talked to her at some point in time. She retired. She's now going to Maine, like, for the summer. And maybe she'll see Glen. But we're -- we were going to try to reclassify the position, but it got -- the reclassification got put on hold, I'm told. guess we'll be hiring another Admin Assistant 3 to be in her place, but it hasn't been announced yet.

We also have -- Camilla has vacated the ES3 position, the Environmental Specialist 3 position, so we'll have that advertised soon. I think that one is going to be advertised pretty soon. And we have one contract worker right now who's assisting with data entry and that's somewhere we've been real behind for a while because we've had a lot of

1	training	of new	staff.	So	anyway	that	will	give	us
2	a full ho	ouse.							

So for the number of facilities, as of last Friday, we had 21,110. The number of tubes as of last Friday was 66,411. And for an update on our online payment system, 44 percent of all payments came in on the online payment system and it worked wonderfully. And we've been really pleased with that. Hopefully, the percentage will go up next year. We'll see.

But we've collected 96 percent of the total that was invoiced back last August. So there's always that percentage that doesn't pay due to possibly closed facilities and what have you.

We've had no new medical events reported since the last meeting, but we had one overexposure, which was an interventional radiologist and it was after the year, his badge from the fourth quarter, he went over five. And I think it was 5.9ish. So -- and they wrote a report and submitted it.

The MqSA contract, usually we start doing a modification process by May or June, but I was informed by the FDA that the contracting department has been eliminated; therefore, we don't know when the -- when or who is going to modify our contract

1	or how it's going to be modified. We haven't
2	we're submitting an invoice. We haven't submitted
3	one since that department was eliminated, so we're
4	hoping we also get paid.

And now a current issue that we've had, this is just one that's going to -- that Mark is going to follow up on, I think, but it was a -- it came in from a -- it wasn't anonymous, I don't think. It was [INAUDIBLE]. Actually, a Rad Tech called and said that we had an issue at a facility in Miami that they, they were offering free low-dose CT scans. And we found out there were four, four facilities that are offering. It's a facility that you go in to get your free low-dose CT calcium scores. And they offer full body scans, colonographys, which I didn't even know existed, and a few other additional scans. They'll do abdominal scans, whatever you want.

They do not accept insurance. They do not have a doctor present, and they print the report from a software and hand it to the patient. So this is currently one of the things that we're doing an investigation on. And Clark's smiling at me, so I may not be able to say much more than that.

THE WITNESS: Well, let's say they don't

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- 1 consider them patients.
- 2 LISA GAVATHAS: Well, this is true. They're
- 3 clients, I guess. So this is something that we're
- 4 working on right now.
- 5 JOSEPH DANEK: Do they have -- what are they
- 6 trying to get out of this, do you think? There's
- 7 got to be something -- they're trying to expect
- 8 something.
- 9 LISA GAVATHAS: Money.
- 10 JOSEPH DANEK: Because you say it's free.
- 11 ADAM WEAVER: The first CT is free.
- 12 CHANTEL CORBETT: Yeah.
- JOSEPH DANEK: Oh, yeah, okay. There's the
- hook.
- 15 LISA GAVATHAS: The full-body CT, they will
- then try to talk you into, I think it's \$3000. And
- in the areas that it's located, there are people
- 18 that would pay that.
- 19 And there's even a police department that is on
- board with it. They are, they are hoping that all
- of their officers go and have all of these scans
- done.
- 23 CHANTEL CORBETT: Are they having -- have they
- given any pamphlets, let's say, to these clients
- about radiation exposure?

1	LISA GAVATHAS: Well, we did, we did send in
2	inspectors to all four facilities on the same day,
3	along with an MQA investigator. And so we've got a
4	lot of notes on it. So right now, it's we're
5	trying to decide where to go with it.
6	CHANTEL CORBETT: Pending.
7	LISA GAVATHAS: Doing some checking online, we
8	found another couple facilities. One in particular
9	in this area that's possibly doing the same thing.
LO	There's no physician or now, there are Rad Techs
L1	there that are pushing the button, but they're not
L2	getting the order from a physician. They're getting
L3	it from an intake person who asks a series of
L 4	questions and says, okay, you're a perfect
L5	candidate. They walk them over to the machine; the
L 6	Rad Tech takes the x-ray or the CT.
L7	CHANTEL CORBETT: No contrast.
L8	LISA GAVATHAS: No contrast, no. So if you
L 9	have any questions
20	KATHLEEN DROTAR: Didn't we have this come up
21	before?
22	MARK SEDDON: We discussed this
23	KATHLEEN DROTAR: In Tampa, wasn't it?
24	MARK SEDDON: Yeah.
25	CLARK ELDREDGE: That facility did have a

1 physician. 2 KATHLEEN DROTAR: That's right. 3 CLARK ELDREDGE: They had a physician that writes the script. 5 CHANTEL CORBETT: I was going to say in this case, if they have a script from a physician, that 6 7 would be a different animal. LISA GAVATHAS: If they had a script, but also 8 9 the Rad Tech cannot give them the diagnosis or whatever. I mean, that's -- you had a guestion. 10 11 NICHOLAS PLAXTON: I was going to say Clark was 12 talking about this at lunch and like, you know, like 13 I was at a recent women's health clinic in the last, 14 like a fair, I guess it is, and like, it was like in the last month over in St. Pete. And I was walking 15 16 around just looking at the different booths 17 available. I think there was, like, two or three 18 booths that did the same thing, where they said -- I 19 kind of like what? The whole body scans, you know, 20 like that type of thing. I didn't look into it any 21 further than that. I was kind of wondering the same thing. I 22 23 mean, maybe they have a doctor that's behind all that, I don't know, or somebody that's licensed to 24

25

do that. But the machines obviously weren't there

1	at the fair, but it will probably send you to one of
2	these places.
3	MARK SEDDON: Because you have self-pay, it
4	eliminates a lot of the constraints because usually,
5	it's your insurance reimbursement that kind of
6	controls access. Since none of that is involved,
7	it's kind of it just goes up on regulations.
8	LISA GAVATHAS: They fly under the radar.
9	MARK SEDDON: It's under the radar. It's only
10	regulations if there are any. And they don't always
11	apply directly, so it's not quite clear.
12	NICHOLAS PLAXTON: Got it.
13	LISA GAVATHAS: I feel like it's another DEXA
14	situation, but we're upping our game to CT.
15	NICHOLAS PLAXTON: Yeah. I think they even
16	had, if I'm not mistaken, they would have like a
17	little menu. You pay, like, fifty bucks for this
18	type of scan and it was just, like, yeah, cash, I
19	would say.
20	ADAM WEAVER: They advertise it in the
21	newspaper, too. The paper comes out every month.
22	NICHOLAS PLAXTON: Do they?
23	MARK SEDDON: To get a work up done. That's
24	what a lot of executives do, a lot of companies,
25	like Publix does it where they pay for their

1	executives to have a whole work up done. There's
2	still a physician, but they do, like, whole body
3	scans and echos and
4	CHANTEL CORBETT: Right. Especially for
5	guaranteed money.
6	JAMES FUTCH: Lisa, if I remember right and
7	feel free to correct me, we weren't saying there was
8	anything untoward or unsafe; that they were
9	competent at what they were doing. It was just
LO	there wasn't a tie in to a medical need or any
L1	determination that had been made by. It seemed like
L2	it was driven by, basically, like a survey or
L3	something that you fill out.
L 4	LISA GAVATHAS: Right. They ask a series of
L5	questions when you walk in. You sit down and they
L 6	ask you, they ask I actually called to ask what
L7	questions you ask. And they asked, do you have a
L 8	family history? Do you have this or, I mean, they
L 9	asked me a series of questions. Oh, you qualify.
20	You should come in. And it and if you have a
21	partner, bring them in, too, because I'm sure they
22	qualify as well.
23	JAMES FUTCH: And they
24	NICHOLAS PLAXTON: Who wouldn't qualify as long
25	as you have cash. I guess unless you have an

1	extensive medical history, they're like, yeah, we
2	don't want to they want just people with nothing.
3	LISA GAVATHAS: Right. And they do say if they
4	find something, like your calcium scores I don't
5	know anything about calcium scores, sorry, but if
6	they are high, then they will recommend that you see
7	someone and if you don't have a doctor, they will
8	recommend one for you.
9	ROSEVELT NHEIK: Are they using is AI
L O	interpreting this software?
L1	NICHOLAS PLAXTON: Probably.
L2	LISA GAVATHAS: Software. Yes, AI
L3	NICHOLAS PLAXTON: Because the calcium scores.
L 4	MARK SEDDON: Yeah, it's an algorithm.
L5	JAMES FUTCH: I think it was the relationship
L 6	between some of the communities that they have
L7	sought clients from have incorporated into the
L 8	marketing, like, you know I won't say this is the
L 9	case in this, but, you know, if you have a
20	population of professionals who come and they all
21	get examined and, you know, one person is found to
22	have an issue and then, you know, upon referral,
23	they go back have something done about that, that's
24	viewed as the positive result of doing all of the
25	scanning for all of the, all of the

1	LISA GAVATHAS: We got a lot of information
2	from the reviews and the reviews told more, I guess,
3	than actually going in and well, you always look
4	at reviews, right, when you do anything; if you go
5	into a restaurant. And so that's how we found out a
6	lot of information when we get complaints from
7	outside. And they would there was one review
8	that a girl took her mother in. Her mother insisted
9	that she go. And she took her in and she said it
LO	was a marketing scheme. That they took them back
11	into a back room, and all they did was try to
12	pressure her mother into having a scan or full body
13	scan. Well, she, her she told them no, that she
L 4	didn't want her mother to have a full body scan. So
L5	they left and they called her mother back by
L 6	herself. So they wouldn't allow her in the room the
L7	second time, to try to pressure the mother into
L8	having a full body scan so
L 9	ROSEVELT NHEIK: Like selling a condo.
20	MARK SEDDON: Timeshare.
21	ADAM WEAVER: Timeshare.
22	ROSEVELT NHEIK: Timeshare, yeah. Isn't this
23	like the x-ray shoe thing, you know, in the shoe
24	stores situation?
25	JAMES FUTCH: That's an interesting societal

1	comment if you think about it because in certain
2	other parts of our office where we have citizens who
3	are concerned about things like background radiation
4	levels in their house, perhaps due to previous use
5	of the land, or just concern like that, you're
6	talking extremely low levels. And the common
7	perception of radiation exposure, I think we've all
8	been exposed to it growing up in American society,
9	is bad, bad, you know.
10	So I'm it's just, it's an interesting thing
11	for me to look at it and go, well, gee, where did
12	that go in this? How did that not factor into what
13	normally you would think would factor in. But
14	again, they said low dose, right?
15	LISA GAVATHAS: They say low dose, which low
16	dose, we can segue into other CT issues.
17	MARK SEDDON: Actually, I wasn't going to talk
18	about this.
19	LISA GAVATHAS: You weren't? No? That's a big
20	issue now, CT dose causing cancer.
21	MARK SEDDON: Yes, I was going to mention that
22	article.
23	LISA GAVATHAS: Okay. Sorry.
24	JAMES FUTCH: One thing, before you leave that
25	particular issue, because you mentioned

1	technologists. In ARRT code of ethics practice
2	standards, whatever you, whichever document, and in
3	Florida, administering radiation without
4	authorization from a licensed practitioner is an
5	enumerated type of unprofessional conduct in the
6	regs
7	LISA GAVATHAS: Right.
8	JAMES FUTCH: for Florida.
9	CHANTEL CORBETT: So do you go after the
LO	technologists that are working the tube, I'm
L1	assuming?
L2	SEAN WILSON: Because technically, x-ray techs
13	work under the supervision of a
L 4	JAMES FUTCH: General supervision.
L5	SEAN WILSON: under the supervision of a
16	licensed medical doctor that prescribes the dose.
L7	CHANTEL CORBETT: The doctor wouldn't have to
L8	be there to do the x-rays, but they have to give an
L 9	order.
20	MARK SEDDON: The order has to be valid.
21	JAMES FUTCH: That has to be authorized,
22	whatever form that takes.
23	LISA GAVATHAS: Aren't they supposed to record
24	the dose of each patient and to keep it on file?
25	CHANTEL CORBETT: I was going to say the

1	software should do that.
2	MARK SEDDON: The accreditation for this type
3	of thing. There's no reimbursement, there's no
4	joint commission or anything like that.
5	CLARK ELDREDGE: Now, Florida Statute Section
6	404.22, paragraph 8: A human being may be exposed
7	to the use of beam of radiation only under the
8	following conditions: For the purpose of medical or
9	health care if the licensed care the licensed
LO	health care practitioner operating within the scope
L1	of his or her practice, has determined the exposure
L2	provides medical or health benefit greater than the
L3	health risk posed by the exposure, and the health
L 4	care practitioner uses the results of the exposure
L 5	in the medical or health care of the exposed
L 6	individual. So
L 7	JAMES FUTCH: You have two different statutes.
L8	You have the machine side in 404, which also covers,
L 9	as Clark mentioned, slightly more than the machine
20	itself, obviously. And then you have 468, which was
21	set up specifically for the people who are
22	administering this.
23	I think the path out of this is basically, if I

I think the path out of this is basically, if I may be frank, if it's a profit-making enterprise, the road to more profit in a stable fashion is to

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1	find a doctor who will authorize all of these
2	things.
3	CLARK ELDREDGE: And in our scope, the
4	physician then has to review and provide the results
5	to the patient. They cannot there has to be a
6	physician who the person, during this exposure, is
7	the patient throughout. We wouldn't care if a
8	doctor believes his primary care deserves that every
9	one of their patients should have an annual
10	full-body CT because it's in their best healthcare
11	management. I mean, that's within their purview.
12	But for someone who's not a practitioner to
13	authorize a CT, that's a violate that's
14	practicing medicine without a license potentially.
15	JAMES FUTCH: If I remember your descriptions
16	from when we talked about this earlier, everyone
17	involved in this says the patient authorizes this.
18	CLARK ELDREDGE: And the patients aren't
19	permitted to authorize it per statute and per rule.
20	JAMES FUTCH: That was the answer you got when
21	the inspectors asked the question of the people
22	involved, was the patient authorized it and they
23	show you the form and the patient filled out the
24	survey form.
25	CHANTEL CORBETT: Self-referral is basically

1	it's a self-referral at that point.
2	LISA GAVATHAS: It's a self-referral.
3	CLARK ELDREDGE: The only self-referral
4	permitted under Florida codes is mammography.
5	MARK SEDDON: Because it's a self-pay, that
6	kind eliminates a lot of the
7	CLARK ELDREDGE: Yeah, there's no checks and
8	balances, per se.
9	MARK SEDDON: Yeah, that's a problem,
LO	obviously. Self-pay is not a medical facility so
L1	you're kind of all the checks and balances
L2	normally in place wouldn't happen.
L3	CLARK ELDREDGE: That's why somebody could
L 4	operate for a couple years and you don't know about
L5	it.
L 6	MARK SEDDON: At least they're registered,
L 7	right?
L8	LISA GAVATHAS: No. Two of them.
L 9	CLARK ELDREDGE: Two of them were.
20	ADAM WEAVER: Two?
21	LISA GAVATHAS: Two of them and two of them
22	have tried. One has tried to register since then.
23	CLARK ELDREDGE: Because they found out during
24	the inspection they weren't registered, so they
25	submitted it and it will be processed appropriately

1	within the response to this activity or this
2	investigation.
3	LISA GAVATHAS: We're working on responses at
4	this time. That's all I have if you have any
5	questions from x-ray.
6	CHANTEL CORBETT: I think that's all I can
7	think of.
8	MARK SEDDON: All right. Anything else for
9	Lisa? No. All right. Thank you, Lisa.
10	Do you have a question?
11	CHANTEL CORBETT: So we did have one that was
12	under a RadOnc or a therapy registration that had
13	some diagnostic units under it, and I guess that
14	used to be okay or the way it was okay? And then
15	now they're wanting those separated out. Under
16	their own registration for the diagnostic units. Is
17	that
18	LISA GAVATHAS: In a hospital setting?
19	CHANTEL CORBETT: Outpatient setting.
20	LISA GAVATHAS: Outpatient therapy is usually
21	under a different it will be under TH.
22	CHANTEL CORBETT: So if we find more of those
23	that are combined, go ahead and separate them out?
24	LISA GAVATHAS: Go ahead and separate them,
25	yes.

1	MARK SEDDON: I think another trend we're
2	seeing is you guys requesting authorization use for
3	all therapy centers. People at older facilities.
4	Those are missing, right? A lot of you have
5	LISA GAVATHAS: A lot of those people are
6	missing. Yeah, you can send it in. We probably
7	have something on file. If not, we will redo it and
8	backdate the authorization to the date that it was
9	originally authorized.
LO	MARK SEDDON: A lot of facilities that have
11	been out there for a long time, they change
L2	ownership and change management. A lot of people
L3	can't find those. But now the newly trained
L 4	inspectors are asking for that when they go to
L5	sites, radiation therapy, and a lot of places don't
L 6	have those available, but you can reach out to Lisa
L 7	and they will provide
L8	LISA GAVATHAS: Yeah, that's fine.
L 9	MARK SEDDON: those prior. Another thing,
20	clarification, I guess is also, regarding
21	information number four, regarding the weighting
22	factors for line badges.
23	LISA GAVATHAS: Yes. So weighting factors, in
24	our regulations, it states that if you that
25	anyone can utilize weighting factors if it is an

1	approved method. If it's not something that's
2	recognized, you can submit for our approval the
3	method and it can, you know, we can look at it and
4	approve it or just whatever.

But before, you were having to send in for specific doctors. It doesn't say that anywhere in the regulations that you had to -- can only do it for interventional radiologists. We find that a lot of interventional radiology are using a lot more help in the, in the room. And if you feel that they need to be -- that they're going to be assisting closely, they probably need it, to be using it as well.

But EDE 1 and EDE 2 are approved methods. If you use that -- one of those two methods, then you do not have to submit something for approval. But what we suggest is you put something in the radiation protection program that says, we -- for any user, operator that is using -- that will be using weighting factors or EDE calculations, we will notify them, they will sign something and at the end of the year for their yearly exposure, it needs to say how their EDE was calculated.

MARK SEDDON: But so one thing, because I think a lot of folks may have been previously approved on All Good Reporters, LLC 407.325.0281 www.AllGoodReporters.com

1	the older version of this
2	LISA GAVATHAS: Mm-hmm.
3	MARK SEDDON: back in the day when it was
4	Dawn and Phillip and them. But if you can't find
5	your original approval letter, you should request
6	I think it's in the notice, itself.
7	LISA GAVATHAS: No. You just need to put it in
8	your radiation protection program that for any user
9	that, that uses well, Clark's going to be arguing
10	with me.
11	ADAM WEAVER: If you're using the standard
12	methods.
13	LISA GAVATHAS: Okay. Clark.
14	MARK SEDDON: At the bottom of this notice, it
15	says something that's the very bottom.
16	LISA GAVATHAS: If you use an approved method,
17	that's what it says in the regulations.
18	MARK SEDDON: If you're unable to find a copy
19	of your approval letter, you should resubmit your
20	request.
21	LISA GAVATHAS: Where does it say that's
22	in
23	MARK SEDDON: That's in the actual notice
24	that's on the website. That's a new thing that
25	wasn't on the draft that was initially sent out,

1	which is catching people off guard.
2	LISA GAVATHAS: Yeah, I didn't see that one.
3	CHANTEL CORBETT: That's what it used to be.
4	LISA GAVATHAS: I haven't even seen this.
5	CLARK ELDREDGE: Registrants who have already
6	adopted method of correcting exposure to external
7	radiation fields and unable to find a copy of their
8	approval letter, should resubmit their request
9	according to this information to obtain an updated
10	approval letter.
11	MARK SEDDON: Yeah. Because a lot people have
12	the old letters from, like, twenty years ago or
13	maybe not.
14	CHANTEL CORBETT: So the question really is, do
15	you want hundreds of letters
16	MARK SEDDON: Do you want those letters
17	LISA GAVATHAS: No, I don't want.
18	CHANTEL CORBETT: coming your way or do you
19	want us to be okay with using the standards.
20	LISA GAVATHAS: What does it say? This is like
21	the those are recommended guidelines, information
22	notices.
23	MARK SEDDON: Okay.
24	LISA GAVATHAS: It's not regulation.
25	CHANTEL CORBETT: Okay. We'll go by the

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regulation that says if they're using standard,
we're good.
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- 3 CLARK ELDREDGE: Where's the approval?
- 4 LISA GAVATHAS: Pardon?
- 5 CHANTEL CORBETT: The approval is the
- 6 regulation.
- 7 LISA GAVATHAS: It says in the regulations that
- 8 if you use a calculation method for approval, for
- 9 calculating your EDE, approved method, you do not
- 10 have to -- I mean, you can, that anyone can use an
- approved calculation. EDE 1 and EDE 2 is in NCRP --
- 12 MARK SEDDON: 122.
- 13 LISA GAVATHAS: 122. No.
- 14 MARK SEDDON: NCRP 122 method. There's another
- one, too.
- 16 SEAN WILSON: It's in the new req, 8.40 as
- 17 well.
- 18 LISA GAVATHAS: What was the first -- what was
- 19 the other?
- MARK SEDDON: 122.
- 21 LISA GAVATHAS: EDE 1 and EDE 2?
- MARK SEDDON: Oh, that one was actually older.
- I can't remember. But NCRP 122 has a new, has a new
- 24 calculation.
- 25 LISA GAVATHAS: Okay. Well, then that's an All Good Reporters, LLC 407.325.0281 www.AllGoodReporters.com

1	approved method. I would say if it's approved by
2	NCRP. I don't know. Clark may have a different
3	opinion. Clark is my boss. I have to do what he
4	says, so
5	SEAN WILSON: If it's approved by 8.40,
6	recognized in the new Reg 8.40, is that not an
7	approved method because they recommend the use of
8	those three different methods, EDE 1, EDE 2 and
9	then a
10	LISA GAVATHAS: Third method.
11	JAMES FUTCH: Would you like to take this under
12	advisement for a future council meeting?
13	LISA GAVATHAS: Yes. That's a great idea. We
14	might need to talk about that more. If everybody
15	would think about this and put their two cents in,
16	you can e-mail me.
17	MARK SEDDON: Thanks. Any other questions for
18	Lisa?
19	JAMES FUTCH: I didn't mean to set off any
20	discussion.
21	LISA GAVATHAS: Thank you. I better take
22	notes.
23	MARK SEDDON: I thought it was something that
24	had come up recently, so I just wanted to get

25

clarification on it.

1	ADAM WEAVER: New inspectors.
2	MARK SEDDON: New inspectors. A lot of new
3	inspectors. So that's the other thing, too. A lot
4	of inspectors for a lot of folks out there probably
5	seeing a lot of new questions, which aren't really
6	off from the regulations. Just that it's a
7	current it's the view of the regulations from
8	somebody new in the field, so they're fresh.
9	ADAM WEAVER: They're looking at the dosimetry
10	report and go, I don't think this is correct and
11	how.
12	MARK SEDDON: Yeah, exactly. And they're
13	asking for like, where is your approval letters?
14	Where's your authorization to use for new
15	LISA GAVATHAS: I didn't read that part in
16	information letters. I don't know if I have I
17	guess it's the one online.
18	MARK SEDDON: Yeah, the one online.
19	LISA GAVATHAS: Another thing, if you have
20	facilities that need a shielding plan and you don't
21	have one, you can contact, like, if you get a new
22	facility and you don't have a copy of the shielding
23	plan, a lot of times we will have the old shielding
24	plan. Sometimes it's handwritten, but I would be
25	happy to provide it. Because I have a lot people

1	that call and say, we just bought this building. It
2	has a vault and we're putting a new
3	CHANTEL CORBETT: Right.
4	LISA GAVATHAS: Linac in it. And so and
5	they I mean, a lot of times, the facility, if
6	it's been abandoned, they don't have they didn't
7	leave the shielding plans behind, so you can call.
8	CHANTEL CORBETT: Right.
9	LISA GAVATHAS: And we don't have them all.
10	Maybe they weren't scanned in, but we do have some
11	older ones. Some that were back from the 80s, early
12	80s.
13	MARK SEDDON: All right. Any questions for
14	it may be a future discussion point. Maybe I
15	think Rosevelt mentioned AI. So where AI is going
16	in imaging interpretation, it's really it's
17	exploding right now for those who are involved.
18	It's like we don't really have to have a lot of
19	physician oversight because everything is done
20	automatically.
21	CHANTEL CORBETT: With remote technologists.
22	MARK SEDDON: Remote technologists, that's
23	another thing.
24	JAMES FUTCH: If anybody sees anything from a
25	company, or they, themselves, want to give a

1	presentation, we'd love you to bring it.
2	MARK SEDDON: Yeah, I think that would be good.
3	Off topic.
4	LISA GAVATHAS: We've had a lot of requests
5	from operators, especially with CT, that they want
6	to use remote operators. We say, yes, they can as
7	long as there's another CT operator in the room,
8	which defeats the purpose.
9	JAMES FUTCH: Is anyone in the imaging field
10	how do I say this. From several years back, the
11	question was inartfully put, radiologist versus AI.
12	Radiologist using AI. Does one replace the other
13	and how many decades. Is it anywhere close to that?
14	KATHLEEN DROTAR: A recent article, yeah.
15	ROSEVELT NHEIK: Well, from what I've been
16	gathering, it's the they're saying that, I heard,
17	is that if the radiologist who doesn't use AI will
18	be replaced by the radiologist who uses AI.
19	KATHLEEN DROTAR: A recent article that I came
20	across just said that it was, it was helpful. You
21	can't have one without the other yet, but that it's
22	enhancing some of the things that radiologists might
23	not necessarily pick up because of the algorithms
24	that get used.
25	MARK SEDDON: A lot of the algorithms now, I

1	mean, up to like finalizing the report, is basically
2	all automated within, like, image captured to within
3	six minutes they have a report and they have action
4	care path given where scheduling the patient. You
5	have to have that physician one piece still
6	remaining is having physicians sign off. So if you
7	talk to any of the big companies, that's sort of
8	what they're pushing as this is how it is going to
9	be very soon. And think back just a handful of
10	years ago, this didn't exist. Now it's across
11	multiple modalities. Like, if you go to RSNA or any
12	of the big image that's all it is. Like half the
13	vendor hall is all AI.
14	ALBERT TINEO: Oh, yeah.
15	CHANTEL CORBETT: Yeah. You have the
16	telereaders, you know, that can now do twenty sign
17	offs in the time that they used to be able to do,
18	like, two or three reads. You get paid per read.
19	MARK SEDDON: Yeah, so it's rapidly changing.
20	Some of them we probably need to pay attention to
21	from because it goes back to what Clark was
22	mentioning before, like interpretation of reports
23	and things like that.

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CHANTEL CORBETT: Well, I mean, MR is obviously

one of the ones that's not --

1	ADAM WEAVER: It comes back who is going to pay
2	for it. The insurance companies.
3	JAMES FUTCH: The patient.
4	CHANTEL CORBETT: And the remote technologist
5	thing is getting
6	MARK SEDDON: MR is the one area that remote
7	technologists is still, that's become a hot topic.
8	CHANTEL CORBETT: Right, and it's going to be
9	an issue with safety, I think, before anything else.
10	MARK SEDDON: Yeah.
11	KATHLEEN DROTAR: It's been a very hot topic at
12	ASRT meetings, there's a lot of back and forth. It
13	comes down to what you just said, there has to be a
14	real technologist in the room with the patient
15	having the scan.
16	MARK SEDDON: Right. Very true. All right. I
17	guess we jump over to I just want to talk a
18	little bit about CT. This is just an aside. It
19	wasn't really intending to be a whole topic. Raised
20	as a curious thing to James? So I apologize if
21	it's really hard to see, but I actually have it on
22	my laptop so I can see it.
23	JAMES FUTCH: Tell me what part you want to
24	see.
25	MARK SEDDON: So anyway, a couple things for

1	CTs.	So actually, slide number two if you want to
2	real	quick. Go back to it. Yeah.
3		So referring back to what Lisa was saving

So referring back to what Lisa was saying about, you know, last month, there was an article in the -- from the folks out of UC San Francisco.

Rebecca Smith-Bindman and those folks.

This is sort of -- they're the ones who created the strong CT doses a number of years ago, right?

The ones that created all the, like I went to DC -- I was on the board at that time with DCM for some stuff and discussions about CT, how much of a concern this is, that tied back to some of the CT neuro injuries occurring.

But their article that came out last month that created a bit of a stir. You may have seen it. Is they're just restating that the study that they had, found that currently, based on current utilization, radiation dose levels, based on CT exams in 2023, would result in over 103,000 future cancers, over the course of the lifetime of exposed patients and that if that, if the practices continue, that CT could account for five percent of all new cancer diagnosis annually, which is very alarming.

But it's not really based on new data or new information. Just the same data they've been

presenting	for	the	last	few	years,	right?
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So I just want to bring this to peoples' attention that this is something that did recently come out. ACR, AAPM, a lot of different folks came out with sort of responses to this. Basically saying it's not new data. This is something we're aware of. There is obviously a risk of radiation when you're exposed to anything. CT is one of the higher sources of radiation across the imaging modalities. Obviously, the younger you are when you're exposed to radiation, the higher perhaps chance of risk of cancer.

And that, that is just a chart from the article. It just shows that as the younger you are, the higher your percent risk of cancer. The younger folks don't get as many CTs as older folks do. Left to right, that's age and then on the left side is your risk of cancer and right side is number of CTs. It kind of indicates that as you -- when you're younger, you're very sensitive to radiation so obviously, any CT will result in a higher risk, relative risk, versus somebody who's older and you get exposed to, to a CT.

But the -- but AAPM, I mean, basically, we've known that this is true. The way that we do CT is All Good Reporters, LLC 407.325.0281 www.AllGoodReporters.com

1	based on appropriateness, right? And that's the key
2	thing is like only appropriate studies should be
3	performed. Going back to what you're saying, a CT
4	is a higher exposed type of modality so we have to
5	make sure that only appropriate studies are being
6	performed.

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So utilization of CT has gone up because it's more available, but then also using it in the proper or appropriate time is also being focused.

Another thing that is important to be aware is the data that they're basing their risks on are old data and not really valid. The assumption the risk from CT scan is the same as somebody who's sick as it is for somebody who is healthy is not quite So the risk of not having a CT study is higher than the risk of a CT study.

So if you're sick and you have a CT study performed, there's a reason why you're having it done because it's diagnosing something. So if you don't have it done, there's a greater risk to you as an individual as a patient, versus the small risk for the actual radiation from the CT.

So this is just an awareness. I mentioned it to James if they had -- they were aware. I quess Lisa, you had some call for that perhaps.

1	there's a more anyone else seeing this as an
2	issue across your practices?
3	ALBERT TINEO: Yeah, we have some patients.
4	MARK SEDDON: Patients are concerned.
5	ALBERT TINEO: Concerned.
6	MARK SEDDON: And how are you guys responding?
7	ALBERT TINEO: Our response is very just
8	similar to what you say. If it's, if it's
9	appropriate and your physician believes it is
L 0	appropriate, then
L1	MARK SEDDON: Right. If there's a need for it.
L2	ALBERT TINEO: The other portion of this was,
L3	new, new CTs now are better, lower dose than the
L 4	older CTs. So that is also given in information to
L 5	the patient. And say, as technology has evolved
L 6	MARK SEDDON: Correct. Technology has improved
L7	over the last ten years.
L 8	ALBERT TINEO: Less of a risk, but it's still a
L 9	risk. But we just tell them, if your physician is
20	appropriately sending you to have something done,
21	then it's probably right.
22	MARK SEDDON: Right. The CT numbers have
23	increased significantly over the years.
24	ALBERT TINEO: Yes.
25	MARK SEDDON: That's really a lot of the

1	concerns, right? Utilization of CT is probably
2	overly, not conservative, but overly physicians
3	are overly conservative, so they order CTs to rule
4	things out. But, you know, if it's justified, it's
5	appropriate, then
6	ALBERT TINEO: Right.
7	MARK SEDDON: it's a huge benefit.
8	CHANTEL CORBETT: I think at the hospital
9	level, we find a lot of education, especially ER
LO	units for the doctors, just educating them on, like,
L1	really checking to see if that patient already had
L2	CTs recently, if they can use that data, if they
13	need to have another one done; that kind of thing.
L 4	So that education has gone a long way as well.
L5	JAMES FUTCH: I wonder how this gets factored
L 6	into the patient self-referral for nonmedical.
L7	KATHLEEN DROTAR: It's low dose.
L8	CHANTEL CORBETT: You know, you have x-ray
L 9	techs who have the knowledge and understanding of
20	radiation, or should have the knowledge and
21	understanding of radiation, who are worried about
22	their own exposure being super high when it's not.
23	Versus, you have the public, who doesn't have the
24	education and they see low dose and they're like,
25	okay. Let's go do this. Let's go pay. So you have

1	people all over the map as far as education and
2	understanding and, you know, low dose in my head
3	versus your interpretation, you know, is
4	dramatically different.
5	KATHLEEN DROTAR: I was really being facetious
6	JAMES FUTCH: Another thing for another
7	meeting, so thank you for
8	ALBERT TINEO: Nice seeing you.
9	(Albert Tineo leaves council meeting)
LO	DAWN SHEPARD: In the past, the number one
11	surgery was exploratory surgery. I think CT has
L2	taken that spot where we, you know, basically the
L3	exploratory surgery has, like, fallen off the map.
L 4	We're not doing those anymore. So in some ways,
L5	like, we're saving lives because we're not opening
L 6	people up to exploratory surgery because of CT.
L7	LISA GAVATHAS: Do we know the difference in
L8	dose between a regular CT and a low-dose CT?
L 9	JAMES FUTCH: Is low fat the same as low dose?
20	LISA GAVATHAS: Is it a lot lower, is it
21	JAMES FUTCH: Well, looking at that graph too,
22	because like you said, you've got the cancer
23	incidents on the left and number of CTs on the
24	right. Is there anyone that correlates cancer
25	incidents with dose from the CT actually or do they

1	not?
2	MARK SEDDON: No. I mean, they don't really
3	have that because it's
4	JAMES FUTCH: Okay.
5	MARK SEDDON: Well, they have assumptions based
6	on epidemiologically.
7	JAMES FUTCH: You don't have
8	MARK SEDDON: You don't have there's no
9	actual study that shows that a CT scan directly
10	causes a cancer, right?
11	ROSEVELT NHEIK: That's pretty much kind of
12	impossible.
13	ADAM WEAVER: You would need too big of a
14	population to consider that.
15	NICHOLAS PLAXTON: There's too many factors.
16	ADAM WEAVER: There's too many factors.
17	MARK SEDDON: Yeah, you can't do that
18	granularly.
19	SEAN WILSON: Not only that, but there's a
20	that data is from 2010. It's report 160. Since
21	2010, we do not see a five percent increase in
22	cancers reported by the American Cancer Society, so
23	the direct correlation is there's no evidence of it
24	anywhere.
25	MARK SEDDON: We're not seeing evidence

1	anywhere. I think Nash came and gave a talk here
2	back when that first came out. But, yeah. So I
3	think it's, it is of interest and, but going back to
4	your low doses terminology. And there are, like,
5	for lung screening, there's, like, criteria for
6	low-dose CT scans, but when you're just making,
7	saying low-dose scan, anything says low-dose scan.
8	What does that really mean?
9	ADAM WEAVER: There's no definition of low
10	dose, acceptable approved definition, what's a low
11	dose?
12	MARK SEDDON: They have one for lung scanning.
13	There are some categories they do actually define
14	to, to meet that criteria. But if it is, they're
15	using a low-dose calcium score, whatever, that's
16	just
17	ADAM WEAVER: Low dose is such a wide range
18	and, ages and body masses and whatnot.
19	ROSEVELT NHEIK: And what about image quality,
20	too? A lot of the low-dose stuff that I see is kind
21	of non-diagnostic. It's like a double-edged sword.
22	They have to get another CT.
23	ADAM WEAVER: They're not getting a good
24	benefit.
25	LISA GAVATHAS: They also get the low dose.

1	They're	selling	them	the	whole	body	on	top	of	that,
2	so that	's not g	ood.							

3 ROSEVELT NHEIK: Exactly.

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MARK SEDDON: So the other piece, this is 5 something that, so CMS has, it is effective in 2025 and people are kind of catching up to this. 6 7 Required reporting is 2028 or 2027, sorry. But 8 there's a requirement that for reimbursement, that 9 it's a new, ACqM, a quality metric that you're 10 tracking excessive radiation dose and image quality 11 for diagnostic CT for adults. So this is a new 12 requirement.

> So hospitals, all hospitals for CMS requirement, are required to provide the percent of CT exams in adults which surpass the established limits. It's interesting because the person who establishes limits are the same group that published that paper we just were talking about out of UC San Francisco. And these limits are pertaining to a size-adjusted dose versus the global noise value across 18 categories, which are in the bottom left corner there, your most common categories of CT The patient, inpatient, outpatient and also exams. for physician reimbursement.

So the first one is a requirement is All Good Reporters, LLC 407.325.0281 www.AllGoodReporters.com

1	outpatient. So every outpatient facility in Florida
2	that does CT on adults will be required to report
3	this in 2027. It was actually to be reported
4	earlier, but they moved it back a year because
5	realizing people aren't going to be able to keep up
6	with this. The initial steward of the metric is
7	actually a company called Alara, which is owned by
8	the same group out of UC San Francisco that
9	published the paper that just came out about CT
10	doses. But so you have to have a dose-monitoring
11	software of some type or at least, most of the
12	centers have the dose from the scanners available.
13	You submit your data to them, the software vendor,
14	that will go ahead and translate it and give you
15	scores on all your patients for both CT noise and
16	also the dose. Size-adjusted dose. And then you
17	can report that back out to CMS for determining your
18	reimbursement for the subsequent year.
19	So for 2029 payment, you'll be submitting two
20	quarters from 2027. That will be submitted in 2028.
21	That's how everyone so you're probably going to

quarters from 2027. That will be submitted in 2028. That's how everyone -- so you're probably going to hear, if you're not aware even aware of it, but this is questions coming up recently because initially, it was supposed to go in effect for 2025 and they've been pushing it back for a lot of people to meet

1 this new requirement.

For those who use, like, an HR, there's different ones out there, the bigger ones, they're the ones who have to collect the metrics and put it out and so they're all working with these different software vendors to figure out how it works.

CMS did provide a clarification recently this year. Actually, a month ago, two months ago, that you don't have to use that software. We realized now there's other metrics, other ways of doing it so they're some dose monitoring or dose management software systems that have already been capturing and providing you your CT noise data, as well as global noise data, you can use them to report out your data as well. You don't have to use the Alara company, although a lot of folks were initially told they did. That's not true anymore.

So this is something else that's out there. So this tied to the other CT article that just came out, is raising a lot of awareness on CT dose, CT noise and going back to what, where they're saying, you know, obviously, if you go too low a dose in CT, you're starting to impact image quality and you have to have review studies, which is a problem for those folks who are pediatric facilities and you have your

L	report to Leapfrog, right? That's another one of
2	the metrics out there for pediatric facilities. You
3	have to report. And that's focused only on your CT
1	dose.

So if you are above the 50th percentile, then you are considered non-compliant and you score lower. So everyone has been slowly reducing and reducing your pediatric doses for CT and increasing, increasing your noise in those subsequent exams. So your image quality is going down, which for maybe in a pediatric hospital where you have pediatric radiologists who are used to reading through all the noise, that's okay, but for most facilities, that's not okay for their physicians. It causes a lot of repeat. So a lot of folks are pulling out from Leapfrog reporting the CT dose.

NICHOLAS PLAXTON: Actually, I can speak to that. I actually read to, I read for, like, my main reading is for Bay Pines for veterans, right? I also read for Florida Cancer on the side and as well as All Childrens in downtown. And so it's interesting because the Florida, the VA has stayed the same pretty much, even though we do try to decrease the dose. But the image quality stayed pretty good.

1	The Florida Cancer I've noticed, the image
2	quality has definitely gone down because they're
3	trying to get the lowest dose possible. And like,
4	it's to a point where now, the contrast is almost
5	like there's no contrast. And I'm like, this is
6	kind of a, are they going too far in my mind.
7	MARK SEDDON: Right. A lot of folks are
8	finding that that's the case. They've gone too far.
9	NICHOLAS PLAXTON: Yeah. But you still read
10	pretty safely. But the kids, it's a whole another
11	realm. When you go there, that's like it's
12	really you have to be kind of comfortable reading
13	that because it's, it's real grainy. And you really
14	kind of, even with the PETS, it's interesting
15	because they're using the absolute lowest dose they
16	can use.
17	MARK SEDDON: Again, it goes back to the
18	younger you are, the more sensitive you are to
19	radiation, but there's a point where you are too
20	low.
21	NICHOLAS PLAXTON: Over time, yeah.
22	MARK SEDDON: There's a point where you're too
23	low.
24	CHANTEL CORBETT: You have to find that happy
25	spot. You still have to have enough quality image,
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1	like you said, where you're not repeating studies
2	because at that point, you doubled it anyways. So
3	you're better off to bump it up a little bit, get a
4	better quality doing it one time versus doing it
5	twice.

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MARK SEDDON: Yeah. And that's what I mean. So this -- the intention of this balancing the dose with CT noise is what the target should be for clinicians. The way they're doing this one is not, not ideal. It's a little strong arm with one pathway. So it's a little, you know, but, you know, it is -- the intention should be, you want to balance your dose with your image quality. Have some way to standardize what you're looking at so you can kind of set your protocols and make sure you're giving the patient the appropriate. Because this is very granular, right? This is for every individual patient, there's a noise in the dose for every single study. So it's not like in general terms, this is actually, you're actually analyzing thousands and hundreds of thousands and millions of studies.

As you can imagine, there's a lot of data floating around out there that is now, all these IT, all of these companies are looking at it as an

1	issue.
2	So all right. I know Clark stepped away, but
3	any questions about
4	NICHOLAS PLAXTON: I just want to say one more
5	thing.
6	MARK SEDDON: Sure.
7	NICHOLAS PLAXTON: Like now that I've assumed
8	the RSO because of DOGE at my facility, there's like
9	a, there's like a we had a patient that comes in,
10	they want to know their whole lifetime exposure. So
11	that's kind of interesting, because obviously, the
12	newer scans have all that data caps, you know,
13	captured. So you just look into whatever scans they
14	have done and it adds up. If anything before that,
15	you have to kind of manually calculate how much, you
16	know, figure out what studies they had done, when,
17	and that's not including outside the system, you
18	know. So it's kind of like, it's kind of
19	interesting because if you're using one system and
20	then you switch to another, I mean, like the
21	tracking system is going to be I see that being a
22	problem in the future going forward.
23	MARK SEDDON: Right. A lot of folks are
24	hesitant about lifetime dose. Lifetime exposure as

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being something you want to provide. It doesn't

1	really make a whole lot difference.
2	CHANTEL CORBETT: There's just too many
3	unknowns about previous studies out there.
4	MARK SEDDON: Yeah, apples and oranges.
5	SEAN WILSON: Risk isn't cumulative. It's
6	individual.
7	MARK SEDDON: Exactly.
8	NICHOLAS PLAXTON: Yeah. I mean, it's probably
9	the best way to approach it. I mean, a lot of this
10	stuff is theoretical. You don't know if there's no
11	threshold that says that you're going to get cancer.
12	ADAM WEAVER: You can have acute and a certain
13	high range you're not going to see in medical.
14	NICHOLAS PLAXTON: Yeah, correct.
15	MARK SEDDON: Gambles policy, is that the term
16	they use?
17	SEAN WILSON: Even with this, you don't have to
18	use the Alara program. But the variability between
19	the Alara program and all the other algorithms that
20	are out there is significant. And so, what is the
21	utility of reporting all this? That's still going
22	to be in question. You're going to have to know
23	CHANTEL CORBETT: You'll have to report apples
24	to apples.
25	SEAN WILSON: You're also going to have to

1	report the method by which you calculated this.
2	MARK SEDDON: Yeah. Because the limits that
3	they have established are based upon using Alara to
4	calculate the noise and the size of the specific
5	dose, which is proprietary to their software. So
6	they're not sharing that with other vendors in the
7	system out there, so everyone is sort of guessing,
8	well, what, I can't compare to what.
9	CHANTEL CORBETT: There should be a base
10	formula. You should be able to apply that across
11	the board.
12	MARK SEDDON: Sure.
13	SEAN WILSON: The Hounsfield unit. There's a
14	formula for Hounsfield unit. There's a formula for
15	noise.
16	MARK SEDDON: The global noise index is
17	something that is very variable based upon which
18	vendor you're looking at, so, all right.
19	I know, Clark, you want to talk a little bit
20	about
21	CLARK ELDREDGE: I've got a couple things here
22	but since we're talking about dose, let's continue
23	with that.
24	MARK SEDDON: Okay.
25	CLARK ELDREDGE: NCRP Report 184, if I'm

1	remembering my number correctly, was updated.
2	JAMES FUTCH: Do you want this?
3	CLARK ELDREDGE: No, I don't have anything to
4	show. Was an update to okay. Population of the
5	U.S. Is that 160? I don't remember anymore.
6	SEAN WILSON: 160.
7	CLARK ELDREDGE: So it was the medical update,
8	160, it was it showed how going to electronic
9	sensing and whatnot, that doses were actually going
10	up because, you know, oh, that makes such a pretty
11	picture. Let's tweak the MA a little bit more. And
12	then.
13	SEAN WILSON: Dose creep.
14	CLARK ELDREDGE: Yep, dose creep. And then
15	image wisely and gently came along and 184 said,
16	hey, we're on downward slope. Well, we're coming up
17	on the ten-year anniversary and NCRB has started the
18	process with AAPM, ACR, CRCPD. Who else was at the
19	meeting? To start reevaluating dose to the public.
20	So as part of that, ERC inspectors will be
21	going to facilities to get, part of their inspection
22	will be collecting dose information. Some will be
23	based on the actual measurements used for our
24	equipment; others will be based on reviewing
25	physicists reports. And any other and data for

1	facilities that have I have to say this right.
2	Set up dose monitoring programs or the seeing
3	what their protocol dose for different studies are.
4	So in collecting that data, along with the
5	inspections. And they will be getting that data
6	from the facilities will be submitted up to CRCPD,
7	who will then massage it and hand it over to NCRP.
8	So this will be going on, requesting all states to,
9	through CRCPD, to cooperate with this project. And
10	so so that's coming.
11	Data collection may be starting soon. It will
12	be discussed at the CRCPD national meeting this
13	coming week in Tucson.
14	Another thing that came around this legislative
15	session, to switch topics, was Senate Bill 832 and
16	House Bill 585. They actually made it through all
17	the committees. Senate Bill 832 was actually rolled
18	and bounced between the chambers and I guess leading
19	with the final at the end, it died in messages
20	because of various additions to it.
21	But this is a bill related to lands previously
22	mining phosphate. And the purpose of the bill was
23	to eliminate strict liability for the presence of
24	natural radioactive materials.
25	So the idea there was just because there was

1	uranium in the soil or radium in the soil, did not
2	make it a liability for the
3	JAMES FUTCH: Landowner.
4	CLARK ELDREDGE: landowner. Actually, not
5	the landowner. Going back to the mining company.
6	Because they were the ones strict liability
7	concept, I'm not a lawyer, nor do I play one in the
8	meeting. But my very poor lay understanding was the
9	strict liability is going back to the original
10	source. What put it there to begin with. It's the
11	fact that the source actually exists is what the
12	liability is based on, not on actual exposure, not
13	on actual harmed caused, but the fact that there was
14	a hazard created or hazard present or potential
15	hazard present is strict liability.
16	Then you've got higher levels liability where
17	it actually takes people to cause something. You
18	actually make some actual enhancement or something
19	with knowledge or whatnot type thing. So that was,
20	again, it certainly looked like it was a the goal
21	was to reduce that strict liability for the mining
22	company; and therefore, potentially, the initial
23	developer of the property.
24	Now, to eliminate this, to eliminate this
25	strict liability, the bill required that the owner

1	of the land list it with list that the land was
2	previously mined for phosphate with the local, on
3	county, somehow connected to the actual property
4	deed or the property information. It also required
5	that the Florida Department of Health to provide a
6	free survey of the property.
7	JAMES FUTCH: Just the gamma.
8	CLARK ELDREDGE: Just the gamma, a gamma
9	survey, one measurement per acre.
LO	ADAM WEAVER: One per acre?
L1	CLARK ELDREDGE: One per acre. Now, mind you,
L2	the setback side of this, it also said if the
L3	landowner did not think that the measure the
L 4	department did was sufficient, that they could have
L5	them come out and do a second measurement.
L 6	CHANTEL CORBETT: Still for free?
L7	JAMES FUTCH: There's no mention of cost.
L 8	CLARK ELDREDGE: In any of this. No method of
L9	fees collection, reimbursement, anything of all
20	this.
21	Now, for the if there was to be a lawsuit,
22	somebody suing over the radiation exposure, they
23	were going to have to hire a certified health
24	physicist, or a member of come on. NR, NR, RPT.
25	National Registry of Radiation Protection

1	Technologists, and they were actually going to have
2	to do a MARSSIM Study.
3	ADAM WEAVER: A MARSSIM Study?
4	JOSEPH DANEK: Who would be doing this?
5	CLARK ELDREDGE: A MARSSIM Study. A certified
6	health physicist or a
7	ADAM WEAVER: NRRPT.
8	CLARK ELDREDGE: NRRPT.
9	JOSEPH DANEK: I know, but who is getting the
LO	CHP or the NR?
L1	CLARK ELDREDGE: The lawyers who are over the
L2	liability.
13	JOSEPH DANEK: The property the lawyers for
L 4	the property.
L5	CLARK ELDREDGE: The lawyers for the client
L 6	who's suing over it.
L7	CHANTEL CORBETT: Right. The complainant.
L8	CLARK ELDREDGE: So basically, this is a case
L9	where lawyers came into town, right? This is not
20	too long ago. Got people in the development
21	concerned about the radiation exposure from
22	because they're on phosphate mining lands. Got some
23	of them to sign on to sue the developer, which used
24	to be which developer was actually the mining
25	company that mined the land and then stopped mining

1	and started became a development company
2	developing all the lands they previously mined.
3	LISA GAVATHAS: Can you explain the MARSSIM
4	Study?
5	CLARK ELDREDGE: It's an EPA thing, multiagency
6	radiation survey and site investigation manual is
7	MARSSIM.
8	ADAM WEAVER: A lot of surveys.
9	JOSEPH DANEK: It sounds pretty complicated.
LO	CLARK ELDREDGE: It's a statistical method of
L1	taking a bunch of different samples a lot of
L2	different ways and evaluating the risk from that.
L3	So that basically kind of set a standard that we
L 4	would have to meet as Department of Health. And
L5	looking at what the costs were and things like that,
L 6	and we were thinking that if it was we were to do
L7	a one off, because the other part about just the,
18	in the landowner any time could request a survey
L 9	from us. So there was kind of a disconnect here so
20	that any subsequent landowner could request a survey
21	for free.
22	JOSEPH DANEK: Yeah, but you are doing one
23	measurement per acre.
24	CLARK ELDREDGE: Right. Well, or at minimum.
25	So let's go and say a neighbor, let's say that
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1	because this is open ended, that it becomes part of
2	real estate. And every property in Lakeland, in
3	Plant City, in Riverview, in Mulberry.
4	ADAM WEAVER: Yeah. Anywhere near phosphate.
5	CLARK ELDREDGE: A place that was previously
6	mined for phosphate, they decide that prior to the
7	sale, they better get that survey done to be able to
8	have a report hand ready for so the fact that
9	what, a year ago, was a really slow real estate
10	year, right? Supposedly. And there was still 1200
11	real estate transactions in Lakeland and 800 in
12	Bartow and area and I forget, yeah, looking this
13	up
14	ADAM WEAVER: You guys will be really busy.
15	CLARK ELDREDGE: We could've been. And then we
16	were looking at it and if we were doing a one off
17	study, right? Somebody just called us up and wanted
18	us to do a one off, that was going to cost us more
19	like 450 bucks, \$480, something in that range, for
20	us to actually go out with people because they were
21	coming from Orlando; the driving. When we do these
22	type things, we send out two people.
23	ADAM WEAVER: At least you're not making the
24	inspectors do it anymore.
25	CLARK ELDREDGE: This would've been the

1	environmental measurements folks. The ones doing the
2	pre and post mining.
3	ADAM WEAVER: We used to do it when I was an
4	inspector.
5	JAMES FUTCH: Depending on the workload, you
6	may be doing this for a long time.
7	CLARK ELDREDGE: Right. Well, to actually do,
8	for one measurement, when we looked at it was going
9	to be, was it 14? No, 24, excuse me, 24.2 FTE years
10	to survey the 680,000 no 550,000 acres.
11	JAMES FUTCH: That's what has been measured or
12	historically what's been mined?
13	CLARK ELDREDGE: Well, that's two different
14	figures. The 550 I think is historical because,
15	there's an estimate of 800 square miles that have
16	been mined and are subject to mining. And I can't
17	remember the
18	CHANTEL CORBETT: Does this include the water
19	covered areas?
20	CLARK ELDREDGE: Well, there is some of that,
21	but separating those out, you have the settlement
22	ponds.
23	ADAM WEAVER: Those are very difficult to
24	survey.
25	JAMES FUTCH: Yeah. Well, think about gross

1	gamma from what surface? Are we talking what
2	distance are we talking? How are we measuring that
3	exactly? How are we maintaining can we go back
4	out and repeat the same measurement and get the same
5	answer? I mean, theoretical with the MARSSIM level
6	of involvement yes, but I don't

CLARK ELDREDGE: So with discussions with John Williamson, who is our administrator for environmental, we were discussing about how we would have to do some sort of gridding on each acre to take samples.

JAMES FUTCH: Short inspectors, tall inspectors.

CLARK ELDREDGE: -- and take measurements and combining them into a single level in each acre.

But, you know, that's -- because currently, when a homeowner, concerned homeowner calls us for their own property, we generally grid it, the outside, and then do walk through the house and find the hottest spot and record that when evaluating someone's home.

So we're going to have to adopt something like that because otherwise, they have an excellent, you know -- anyway, the fact it went through so far -- so well, you know, it doesn't mean it won't come back next time.

1	ADAM WEAVER: So it wasn't the bill wasn't
2	finally approved.
3	CLARK ELDREDGE: The bill was passed by the
4	Senate; taken into the House. The House basically
5	adopted the Senate one once it was passed because
6	they beat it to them. Whatever. But then the House
7	added a rider extending liability. There was a
8	whole additional legal liability language for
9	unrelated stuff added to the bill and it went back
10	to the Senate. The Senate said, no, we're not going
11	to let you do this. You need to think about, sent
12	it back to them saying, please remove your extra
13	language and we'll be fine. But the clock ran out.
14	While the current session is to be extended,
15	supposedly the extension is only for consideration
16	of budgetary matters, but you never know.
17	JAMES FUTCH: If that gets accomplished, it
18	will be good.
19	CLARK ELDREDGE: Yes, that would be wonderful
20	if they pass the budget.
21	JAMES FUTCH: You may be reading stories about
22	Florida government being shut down, in which case
23	JOSEPH DANEK: What's the bill numbers again?
24	JAMES FUTCH: Bill numbers
25	CLARK ELDREDGE: 832.

1	JOSEPH DANEK: I'm sorry. Can you repeat?
2	CLARK ELDREDGE: 832, 585.
3	JOSEPH DANEK: Yeah, 585. House bill?
4	CLARK ELDREDGE: House bill's the odd. Even is
5	Senate.
6	JAMES FUTCH: It's easier remembering it the
7	other way around.
8	CLARK ELDREDGE: House is always I'll let
9	you say that.
LO	JAMES FUTCH: I knew the guy who came up with
L1	that.
L2	JOSEPH DANEK: 832, 585?
L3	CLARK ELDREDGE: What's our time?
L 4	JAMES FUTCH: You're 15 minutes past me. 2:30.
L5	MARK SEDDON: 2:30.
L 6	JAMES FUTCH: New business is at 2:45.
L7	CLARK ELDREDGE: I guess we will
L 8	JAMES FUTCH: Go ahead.
L 9	CLARK ELDREDGE: Okay. Sort of some discussion
20	here if anybody's got input. We all know that in
21	the medical field, the use of radiation, it's been
22	well established. The philosophy that you're
23	determining there's a need and the use for the
24	radiation exposure, and you've evaluated the risk
25	and determined that the medical benefit outweighs

1	the	medical	risk.

In jails and other facilities where they're starting to use, where they've been using transmission x-rays for several years now to search people for contraband being brought in, there is no formula, no protocol for that sort of evaluation.

So, excuse me. I'm trying to remember what it was earlier that I was thinking about I was going to ask for comment on. Because I'm currently a chair of a national group, CRCPD, that is actually looking into this issue and coming up with a -- so at this point, the proposal or draft language, is basically that they have to perform some -- in order to adopt this, that you should be doing some sort of evaluation, looking at your data of what you're trying to prevent and what the risk is.

Obviously, you know, with radiation exposure one death outweighs a whole lot of dose. One shiv smuggled into a security place, you know, that will -- but the actual issue is demonstrating that the methodology and the, the individuals --

MARK SEDDON: Benefit.

CLARK ELDREDGE: -- benefit, individuals being scanned are actually at risk for that. You know, the desire to scan anybody walking across a security All Good Reporters, LLC 407.325.0281 www.AllGoodReporters.com

1	line. The issue of using transmission x-rays to
2	scan for surface hidden items rather than
3	internal. The issues of if you're scanning the
4	whole body with a transmission x-ray, you're only
5	interested in one area, why are you scanning the
6	whole body with a transmission x-ray? You should
7	only be scanning the one area. So I guess that's
8	one question.
9	ADAM WEAVER: Well, isn't it, isn't it possible
10	they could be implanting it, themselves? I thought
11	that was one of the reasons they did the whole body.
12	LISA GAVATHAS: They wanted to scan everyone
13	that walks through the
14	ADAM WEAVER: Yeah. I'm just talking about the
15	inmates. Someone who wants to bring something in.
16	They could implant it or have that's why they
17	wanted to do whole body rather than just the lower
18	abdomen.
19	LISA GAVATHAS: Do you know what the number one
20	thing is they're looking for for scan, when they're
21	scanning, are cell phones. They say that's the
22	worst thing that they can bring into the prison

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system because that keeps them in touch with the

imagine having -- I won't say that for the record.

outside world and they can run gangs. I can't

23

24

1	ROSEVELT NHEIK: People are creative.
2	ADAM WEAVER: Use your imagination.
3	CLARK ELDREDGE: Well, I'm not sure I hadn't
4	heard about the implant thing before.
5	ADAM WEAVER: I thought I've seen that, that
6	was a long time ago when someone had, like a skin
7	flap purposely so I don't know if it was on the
8	chest or the back.
9	CLARK ELDREDGE: Interesting.
10	ADAM WEAVER: Yeah. That could be old.
11	CLARK ELDREDGE: And the question is, is any of
12	the I guess microwave, would microwave, the
13	various back scatter techniques detect that or not.
14	If the skin's enough to do the back scatter.
15	ADAM WEAVER: Depends on how thick your pocket,
16	how much skin is in front of the object, you know,
17	type of thing. All right. So what did you want
18	comments on?
19	CLARK ELDREDGE: Any thoughts about, any
20	thoughts about, yeah, because one consideration was,
21	yeah, again focusing on if you're it is if,
22	rather than using transmission x-rays, do you
23	need first of all, if you're only interested in

one part of the anatomy, you just focus transmission

24

25

on that.

1	Mind you, if you're having to do, if you're
2	looking at the entire GI tract, is the dose
3	difference, really the difference to do the whole,
4	you know, if you really do the whole GI tract of
5	somebody, what's the difference doing that and the
6	whole body practically.
7	ADAM WEAVER: Well, I guess they could swallow
8	it.
9	CLARK ELDREDGE: Actually, that was a big thing
10	looking for tea bags and swallow it. Well, with
11	inmates going with people going back into the
12	fully controlled area where you have the ability to
13	pass things. So that's one thing. With those
14	folks, when you're already giving a whole organ
15	dose, dose to all the organs, the extremity dose for
16	doing the other things is, you know, not
17	significant.
18	ADAM WEAVER: The equipment manufacturers
19	provide dose estimates for
20	CLARK ELDREDGE: That's one of the other
21	things. With evaluating the hardware well, the
22	devices are yes, they're doing dose estimates
23	because they're limited to 25
24	ADAM WEAVER: Millirem.
25	CLARK ELDREDGE: Micro.

1	ADAM WEAVER: Microrem.
2	CLARK ELDREDGE: For scan. So the dose levels
3	are quite low. I mean, they're actually
4	currently, limits are below public, dose to the
5	public for annual. Doing the 50, 25, come on, do
6	the math. I should have my notes in front of me.
7	MARK SEDDON: Is it daily?
8	CLARK ELDREDGE: No, no. This is annual.
9	MARK SEDDON: You don't have to scan on a daily
10	basis.
11	CLARK ELDREDGE: Or multiple times a day.
12	MARK SEDDON: Multiple times a day. So
13	probably the math works out where it's
14	ADAM WEAVER: It's probably in the millirem, to
15	sum it all up. I don't know. I haven't looked at
16	the standard in a long time.
17	CLARK ELDREDGE: If I was online, I could pull
18	it all up because that actually was something I was
19	thinking about talking about initially.
20	MARK SEDDON: Okay.
21	NICHOLAS PLAXTON: They probably wouldn't have
22	to be scanned every day, though, right?
23	CLARK ELDREDGE: No, no. Well
24	MARK SEDDON: Every time they enter.
25	CLARK ELDREDGE: Every time they enter. So if

- 1 you've got somebody on work release.
- 2 NICHOLAS PLAXTON: Oh, yeah.
- 3 CLARK ELDREDGE: And they're also looking at
- 4 the guards and scanning them.
- 5 NICHOLAS PLAXTON: Oh, yeah.
- 6 MARK SEDDON: Or visitors.
- 7 CLARK ELDREDGE: Or visitors. FDLE or, excuse
- 8 me, DOC has backed off on scanning all visitors at
- 9 the moment. So they're just currently doing
- inmates.
- 11 MARK SEDDON: Yeah.
- 12 NICHOLAS PLAXTON: Those are the ones you're
- 13 worried about giving the inmates the --
- 14 CLARK ELDREDGE: But at the same time, they can
- 15 scan the inmates going back behind the line --
- NICHOLAS PLAXTON: Yeah.
- 17 CLARK ELDREDGE: -- so that's --
- 18 NICHOLAS PLAXTON: Yeah.
- 19 ADAM WEAVER: Yeah. Doing the guards or other
- 20 personnel who work in the facility.
- 21 CLARK ELDREDGE: I'm somewhat amazed for the
- descriptions of, in a room like this, with people
- watching, where people are able to pull things out
- of orifices and insert them into other orifices.
- 25 And I'm just --

1	JAMES FUTCH: Okay.
2	(Laughter)
3	ADAM WEAVER: That's going to be an interesting
4	risk/benefit analysis.
5	NICHOLAS PLAXTON: It's like a magic show.
6	MARK SEDDON: All right. James Futch.
7	JAMES FUTCH: Technology update. Two main
8	things. One, radiologist assistant. We have spoken
9	to ASRT. This is a long-standing issue. I've
10	spoken to the lawyers. Rosevelt and Kathy
11	separately have spoken to ASRT, pulled out the
12	document that's the practice standards for the Rad
13	Assistants. We have asked them for the things that
14	we would need to make sure that can be put into our
15	rules. We asked them for permission because it's
16	copyrighted material. And also, we have to post it
17	on the Department of State's website, the rule to
18	incorporate it by reference.
19	So they're talking up their chain to see what
20	exactly it is and how we should ask for that.
21	Hopefully that won't take very long at all. I
22	wouldn't think so. They must be asked this all the
23	time.
24	The intention is to replace I should show
25	you the rule, right? That's not it. Why am I still

1	showing that? I don't know why that's still
2	showing. There we are. I'm sure that helps.
3	Anyway, this is the section we're talking about
4	in the existing regulation. This is where we
5	currently have incorporated the rule delineation
6	from 2005, which is super specific. And so, what's
7	going to happen is, we're trying to just simply
8	replace that with a practice standard.
9	Talked to the lawyers on our side; they said,
10	yes. This is fine. Let's go ahead and try that.
11	We're not going to do anything with the entry level
12	clinical activities. This is all based upon
13	previous discussions with the counsel. The rule
14	delineation is in modern times called the entry
15	level clinical activities. The practice standards
16	is what we're trying to get to put here, and that
17	discussion is ongoing.
18	If we get good answers from ASRT, and the next
19	step is to do a notice of proposed rule making.
20	And, excuse me, notice of proposed rule development.
21	And we can probably have the language already at
22	that point. And there's no timeline I have for when
23	that's going to happen, but once it does, my
24	reference point for the most recent rule of

25

equivalent size that we're able to get through in

1	the	same	regulation	64A-3	, two	plus	vears.

So I would like to be able to say that soon it will be completely out of our hands and into that thing between us and when it makes its way out of the other end of the regulatory sausage-making process. Appreciate your help and support in all that. All the trainings are running on the right It's just a matter of getting the track. appropriate okays for, for it to move forward.

CLARK ELDREDGE: Now you're at -- you're saying that we're, that we're looking to request the ability to post the actual?

13 JAMES FUTCH: Yeah.

CLARK ELDREDGE: Is there something changed in 120 or something that says we can't hold a copy at our offices and a copy with the Department of State for review?

JAMES FUTCH: We can. That's not how we did it last time. In fact, if you go look at this very regulation for all the other types of technologists, we have the actual document incorporated by reference and it is on our website. And that's — that was a whole different group of people back then. So I think maybe some folks have changed the ASRT site. I don't know.

1	KATHLEEN DROTAR: What's happened with ASRT is
2	that the standards, instead of being specific to
3	each individual discipline, now it's by whatever the
4	practice is. And then it incorporates all of the
5	different ones under this section under use of, you
6	know, use of whatever. And then it's for each
7	individual. So that's the problem.
8	JAMES FUTCH: Right. We've moved past that.
9	KATHLEEN DROTAR: Oh, good.
10	JAMES FUTCH: We being me in the discussions
11	with our lawyer does not think that's going to be
12	problematic. So we'll just go forward and, and if
13	something stops along the way, then we'll find out
14	about it as we go along the way. That would've been
15	optimal, but that's why we're sitting here a couple
16	years after starting to do this, because that's just
17	not going to happen.
18	What I was going to talk about and Clark was
19	talking about was the mechanics of incorporating
20	some of the other groups' stuff into our stuff. We
21	started off asking for the way we did it the last
22	time where we get the copyrighted material and they
23	give us permission to put that in our material, and

I think what they want us to do is, which seems

24

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I suspect they may not want us to do that anymore.

1	logical, which is why don't you just reference the
2	link on our website and incorporate the link by
3	reference and the answer is Chapter 120 doesn't
4	permit that because when they changed their
5	regulations on site, our regulation would change and
6	the regulated entity would not have a bite at the
7	apple to object to whatever ASRT's current standard
8	is, having changed in the original in between when
9	we adopted it.
10	It's a lot bureaucratic stuff. The news is
11	that we're moving forward with it and maybe by the
12	fall, we'll have some sort of it will be
13	somewhere along the way that I can tell you it's
14	somewhere along the way.
15	Let's see. What else?
16	KATHLEEN DROTAR: Can I pose a question?
17	JAMES FUTCH: Sure.
18	KATHLEEN DROTAR: So in view of it could take
19	two years or more, so
20	JAMES FUTCH: How long did it take you to get
21	where you're at with yours?
22	KEVIN KUNDER: The first part of it published?
23	JAMES FUTCH: Yes.
24	KEVIN KUNDER: At least six years.
25	KATHLEEN DROTAR: So when the standard changes?

1	JAMES FUTCH: Right.
2	KATHY: Will that be
3	JAMES FUTCH: No, it starts all over again.
4	KATHLEEN DROTAR: It starts all over?
5	JAMES FUTCH: That makes logical sense. That's
6	not what our Florida Chapter 120, Administrative
7	Procedures Act allows. It makes sense so if we
8	adopt what is now
9	KATHLEEN DROTAR: Yeah.
10	JAMES FUTCH: You know, X, it's a beautiful,
11	you know, blue baby whale. Okay. We adopt it today
12	by reference with the group that says this is a
13	beautiful blue baby whale on our website and we go
14	through the process and two years from now, after
15	it's adopted, they change the blue baby whale to an
16	ugly rattlesnake or something. I don't know. You
17	never got a chance to say, I don't want to be
18	governed by an ugly rattlesnake. I liked the
19	beautiful blue baby whale instead. You never got
20	the chance, as the regulated entity subject to the
21	blue baby whale, to object to the change to the,
22	whatever I said, ugly rattlesnake. So that's why
23	that's not possible.
24	KATHLEEN DROTAR: Okay. Thank you. So the
25	other part of that is, do we need to wait until that

1	happens to look at the other modalities?
2	JAMES FUTCH: Clark, when do I retire? Four
3	years, right? Sooner than that, so his viewpoint
4	is much shorter. No. I would, I would not ever
5	wait for something.
6	KATHLEEN DROTAR: Like that to happen.
7	JAMES FUTCH: No. You're going to be sitting
8	here a couple years. Why did we wait and not just
9	move forward with something? My best guess
10	CLARK ELDREDGE: The Department is currently
11	working on a actually, it's almost ready to go to
12	publish, a clarification on the use of mobile
13	devices. Because a, a group petitioned us for rule
14	making.
15	JAMES FUTCH: All righty. So I don't have
16	anything else new. And it is time for us, I think,
17	to discuss, Mr. Vice-chair, three minutes. I'm
18	sorry. Does anybody have any questions?
19	MARK SEDDON: Any other business or questions
20	for James regarding scope, technologists practice?
21	ADAM WEAVER: No, nothing.
22	MARK SEDDON: All right. So do we want to look
23	at next meeting, potential dates?
24	JAMES FUTCH: You have a September and an
25	October in the back of your packet, as well as, of

1	course, you have your phone.
2	MARK SEDDON: Right. I'm sure someone has the
3	Gator schedule. That's usually what people
4	ADAM WEAVER: (Laughing)
5	JAMES FUTCH: If at all possible, normally we
6	end up going in the month of September, that is I'd
7	say the second week, sometimes the third week. I
8	would, I would respectfully recommend, if at all
9	possible, if the group could decide upon, for
10	example, the first full week of October, which is
11	ADAM WEAVER: The 6th?
12	JAMES FUTCH: Tuesday is the 7th in this
13	calendar.
14	MARK SEDDON: Yeah.
15	JAMES FUTCH: So if we would like to hear from
16	the radiation safety officer at the Kennedy Space
17	Center for that talk that we told you about, he
18	needs to have it happen the beginning of the next
19	fiscal year for the feds. So the 7th would be
20	ideal, or the 14th or the 16th. That's a Thursday.
21	And I toss that out. Does anybody have anything
22	going on those dates that would be bad or good?
23	JENNIFER PETERSON: I like the 7th.
24	CHANTEL CORBETT: The 7th would be good.
25	JAMES FUTCH: Dr. Peterson says the 7th.

1	MARK SEDDON: Sounds good.
2	ADAM WEAVER: Good or bad?
3	JOSEPH DANEK: Sounds good.
4	JENNIFER PETERSON: Good.
5	ROSEVELT NHEIK: Hurricane season starts to
6	wind down then, too.
7	ADAM WEAVER: October 7th or 8th?
8	JAMES FUTCH: The 7th is a Tuesday. That was
9	only a suggestion.
10	CHANTEL CORBETT: October 7th.
11	JOSEPH DANEK: October 7th.
12	ADAM WEAVER: Fine. I'm seeing that as a
13	Wednesday.
14	MARK SEDDON: It's a Tuesday.
15	KATHLEEN DROTAR: The calendar is wrong.
16	MARK SEDDON: It's misleading with the way the
17	numbers are.
18	JAMES FUTCH: You've got to look at the boxes.
19	ADAM WEAVER: All right. Never mind.
20	MARK SEDDON: All right. We're not voting or
21	anything. Technically, we're agreeing without a
22	vote. We're going to do the Tuesday, October 7th,
23	as the next meeting.
24	KATHLEEN DROTAR: Sounds good.
25	MARK SEDDON: All right. Is there anything

1	else? Any other business? Any items, agenda you
2	want to bring up?
3	I know we talked about the nurse practitioners
4	before, but I think we're okay with that. James, did
5	you want to bring up
6	JAMES FUTCH: Go ahead. So nurse
7	practitioners, I think, was an older topic. We
8	talked about performance of
9	MARK SEDDON: Fluoroscope
10	KATHLEEN DROTAR: Yeah.
11	JAMES FUTCH: fluoroscope. With regard to
12	468's authority, with regard to our Chapter 468,
13	which is the Rad Tech licensure, it exempts anyone
14	who is, quote, a licensed practitioner as defined in
15	that statute from being subject to the Department's
16	regulation. So underneath licensed practitioner is
17	a list of allopathic physicians, MDs, osteopathic
18	physicians, chiropractic physicians, all sorts of
19	any different way you can think of the word
20	physician.
21	And then at the very end of it it says or
22	someone in I'm paraphrasing or someone who is
23	otherwise authorized by law to practice medicine.
24	And a number of years ago and we don't get to
25	define what that, what that means. This has never

1	been defined in our statute.
2	So many years ago, we sought the counsel of the
3	Boards of Medicine and Boards of Nursing who govern
4	the physician assistants and the, I'll say nurse
5	practitioners. And those groups said, yes. For the
6	purposes of the Board of Medicine, PA is someone who
7	means is otherwise, under the category allowed by
8	law to practice medicine. And the Board of Nursing
9	said yes, nurse practitioner is someone who's
10	authorized by law to practice medicine and it makes
11	logical sense.
12	So because of that, we don't have any
13	regulation that really addresses, from 468's
14	perspective, what a nurse practitioner does or
15	doesn't do with fluoroscope. Theoretically, that's
16	within nurse scope of practice to do that.
17	Now, I'm not an expert on your scope of
18	practices. They may say we have issues with that,
19	whatever. But from our perspective, that's the way
20	our lawyers explained it to us.
21	MARK SEDDON: So in essence, it goes back to
22	the Board of Nursing to determine what the scope of
2.3	practice is for nurse practitioners.

25 MARK SEDDON: Right. That was just a -- we All Good Reporters, LLC 407.325.0281 www.AllGoodReporters.com

JAMES FUTCH: Yeah.

1	talked about it around about before. I just wanted
2	to it was requested to bring it back up again.
3	So that was just the end to say we brought it back
4	again.

JAMES FUTCH: What they said years ago was, both groups, in their own separate language, Board of Medicine language, Board of Nursing language, the scopes of those folks, they have an interesting phrase. I always get this a little bit wrong. It's basically, the scope of practice is those duties performed by the supervising physician or the protocol physician if they're in the case of the nurse practitioner. This is the way it was years ago.

Pursuant to basically the supervising physician's determination that they have the appropriate skill and ability and underneath their appropriate supervision. They like to use the word appropriate a couple different places to tie them back to that, especially in the case of the PA, to tie them back to that supervising physician.

In the case of the Board of Nursing, many years ago when we did this, they tied it back to a radiologist. But, of course, we asked the question in the context of the radiologist, and they were

1	answering that question in the context of the
2	radiologist. So in their mind, that's a that's
3	who they answered in terms of.
4	None of this is something that we get to I
5	can't write a regulation under 468's authority that
6	says, nurse practitioner you must do this or don't
7	do this, or whatever it is with regard. I don't get
8	to write one for something that is completely
9	exempted from my statute. That's why.
LO	MARK SEDDON: I thought it was interesting. I
L1	know we have a nurse practitioner.
L2	KATHLEEN DROTAR: That's a subject that came up
L3	last week in a conversation I had with somebody, was
L 4	why the nurse practitioner was doing fluoroscope.
L5	Now I can answer them.
L 6	MARK SEDDON: It's becoming a very common
L7	topic. I had this question raised numerous times
L8	this year.
L 9	JAMES FUTCH: And I haven't really followed
20	closely what's happened with the Legislature every
21	year and the scope of practice of the nurse
22	practitioner and the different kinds that or
23	extensions and changes that have happened with that.
24	But when we were asked about it many years ago,
25	there was a written protocol, and the Department,

1	the Board of Nursing required that be filed for the
2	nurse practitioner. I don't know if that's still
3	the case, Dawn, or not. And they would ask us about
4	it and we said, well, does it say something on the,
5	on the written protocol about x-ray? Does it say
6	something about imaging procedures in some general
7	or specific way sensored?
8	You know, in other words, we're not the experts

You know, in other words, we're not the experts in this, but this is what it appears to be what your group wants. Go talk to them and see, you know.

Maybe -- certainly our inspectors go and look. If we see a PA performing procedures underneath a supervising physician that's a radiologist or, you know, I guess theoretically, a dermatologist who's doing skin cancer therapy or something like that, we're not going to cite them. And if the inspector sees a nurse practitioner and we're not going to -- I won't say we -- I won't say anymore. Okay.

MARK SEDDON: All right. Thank you for that.

Any other comments, questions? I know we're at the end of our meeting time. All right. I guess we'll unofficially adjourn our meeting.

(proceedings concluded at 2:53 p.m.)

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3	COUNTY OF ORANGE:
4	
5	I, RITA G. MEYER, RDR, CRR, CRC, do hereby certify
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9	stenographic notes.
10	I FURTHER CERTIFY that I am not a relative,
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15	DATED this 1st day of June, 2025.
16	DATED this ist day of dune, 2025.
17	
18	Therend
19	RITA G. MEYER, RDR, CRR, CRC
20	RITA G. METER, RDR, CRR, CRC
21	
22	
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24	
25	