

COMMONWEALTH OF PENNSYLVANIA
HOUSE OF REPRESENTATIVES

PROFESSIONAL LICENSURE COMMITTEE
PUBLIC HEARING

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HARRISBURG, PA

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ROOM G-50

TUESDAY, FEBRUARY 27, 2018
9:32 A.M.

PRESENTATION ON
HOUSE BILL 1545
MEDICAL IMAGING AND RADIATION THERAPY LICENSURE
AND ESTABLISHING THE MEDICAL IMAGING AND
RADIATION THERAPY BOARD OF EXAMINERS

BEFORE:

HONORABLE MARK T. MUSTIO, MAJORITY CHAIRMAN
HONORABLE GARY DAY
HONORABLE KEITH GILLESPIE
HONORABLE DAVID HICKERNELL
HONORABLE JERRY KNOWLES
HONORABLE ZACHARY MAKO
HONORABLE STEVE MENTZER
HONORABLE CURT SONNEY
HONORABLE HARRY READSHAW, DEMOCRATIC CHAIRMAN
HONORABLE TIM BRIGGS
HONORABLE DOM COSTA
HONORABLE JORDAN HARRIS
HONORABLE WILLIAM KORTZ

* * * * *

*Pennsylvania House of Representatives
Commonwealth of Pennsylvania*

ALSO IN ATTENDANCE:

REPRESENTATIVE BRYAN CUTLER

COMMITTEE STAFF PRESENT:

WAYNE CRAWFORD

MAJORITY EXECUTIVE DIRECTOR

KELLY ROTH

MAJORITY LEGISLATIVE ADMINISTRATIVE ASSISTANT

MARLENE TREMMEL

DEMOCRATIC EXECUTIVE DIRECTOR

KEONTAY HODGE

DEMOCRATIC LEGISLATIVE ADMINISTRATIVE ASSISTANT

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SUBMITTED WRITTEN TESTIMONY

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(See submitted written testimony and handouts online.)

1 P R O C E E D I N G S

2 * * *

3 MAJORITY CHAIRMAN MUSTIO: Good morning,
4 everyone. I'd like to call this meeting of the House
5 Professional Licensure Committee to order. And the first
6 order of business is to take the roll. Kelly, would you
7 please call the roll?

8
9 (Roll was taken.)

10
11 MAJORITY CHAIRMAN MUSTIO: Just to remind the
12 Members, we are being recorded today. There is an
13 appropriations hearing going on today as well, so many of
14 the Members that are on this Committee are also on that
15 Committee, so you'll probably see some Members coming and
16 going during this hearing this morning.

17 First, I'd like to thank Chairman Readshaw for
18 conducting the meeting yesterday. I had some good business
19 in my legislative district as it relates to some economic
20 developments, some health care issues, so I didn't want to
21 cancel the meeting on that very important bill yesterday,
22 so I wanted to take this opportunity to thank you for doing
23 that.

24 The legislation before us this morning -- again,
25 this is a hearing on the bill; we're not taking any votes

1 today -- is House Bill 1545. The prime sponsor is
2 Representative Bryan Cutler. And I'd welcome
3 Representative Cutler to please say a few words. And at
4 the same time I notice, in looking at the people attending
5 the hearing today, that the average age of our hearing has
6 dropped significantly from what it normally is. So I'm
7 assuming, Representative Cutler, that there's either a
8 cheering squad here or these are students, and if you could
9 enlighten the Members, that would be great.

10 REPRESENTATIVE CUTLER: Thank you, Chairman
11 Mustio, Chairman Readshaw, Members of the Committee. Thank
12 you for the opportunity to come and discuss House Bill
13 1545.

14 You're correct, Mr. Chairman. They are from my
15 alma mater where I graduated from x-ray school, which is
16 the Pennsylvania College of Health Sciences. And they're
17 here to learn about the legislative process today as part
18 of their class and instruction time period.

19 I want to thank you all for having the hearing on
20 the bill. I'll give a very brief background as to what
21 kind of got me going down this path both from my own
22 clinical experiences, as well as an experience from a
23 friend of mine more recently who worked in the applications
24 world.

25 Digital radiography has been an amazing

1 development. Over 100 years ago when x-rays were first
2 discovered, they stayed relatively the same for the first
3 couple decades in terms of how the approach was used to
4 obtain the radiographs or the x-rays. And when you look at
5 some of the advancements in recent years, digital being
6 probably one of the best, one of the problems with digital
7 radiography can be related to the dose and some of the
8 other exposure factors that are with it.

9 Oftentimes, in practice, what I experienced as a
10 technologist as I worked through law school -- I worked per
11 diem at a variety of different hospitals -- I noticed that
12 sometimes the software was able to compensate for what
13 would be suboptimum images. And some of those images were
14 overexposed where patients were exposed to more radiation
15 than necessary to obtain a medically diagnostic image.

16 The case that brought this to the forefront was a
17 case in Florida where a friend of mine was called in as
18 follow-up. They had a pediatric interventional cardiology
19 case, so they were doing imaging of the heart and the
20 associated vessels. And this particular case they had over
21 six hours of fluoro time. And I know that we have a
22 radiation physicist on here later. They'll tell you that
23 that is not normal. And unfortunately, the radiographs
24 were set up in a way that were taking high resolution
25 images for that entire six-hour period. That's how the

1 computerized system was set up, and that's what occurred,
2 unfortunately.

3 Ultimately, that child passed from radiation
4 sickness and overexposure. There were other comorbidities
5 or other health issues that this individual had, but it
6 really brought to light the concern of not having someone
7 other than the physician who is well-versed in the field of
8 radiography and in particular what exposure factors mean to
9 individuals.

10 Oftentimes as a tech, I would be in an operating
11 room, and at that time the fluoro alarms would go off at 4-
12 1/2 minute intervals, which was to signify the doctor that
13 you've taken a lot of x-rays to this point and to be a
14 little more mindful of the exposure to the patient. And in
15 any good system, just like we have here in the legislative
16 process, you need a system of checks and balances.

17 And while the case in Florida where the
18 individual should have known better, I think it would have
19 been far better for the patient and the quality of the
20 patient care had someone in the room understood the
21 exposure factors and what comes with that.

22 While there have been a lot of great advancements
23 in medicine in terms of the interdisciplinary collaboration
24 for the care of patient, this is one area of expertise that
25 needs to stay at the forefront just because of what can

1 happen if proper safety protocols are not followed.

2 With that, I'll open it up because I know you're
3 going to accept a lot of comments today on the legislation.
4 I look forward to working with you, as well as all the
5 interested parties in discussing that. And I'll be happy
6 to discuss it at your convenience, Mr. Chairman. Thank
7 you.

8 MAJORITY CHAIRMAN MUSTIO: Thank you. And you're
9 welcome to sit or stay in the audience, however you'd like
10 to do it, to listen to the testimony.

11 Our first testifier this morning will be Marjorie
12 Sawyer representing the PA Society of Radiologic
13 Technologists. And, Marjorie, I noticed in a note that you
14 also go by Mardi, is that right? Okay.

15 MS. SAWYER: Thank you.

16 MAJORITY CHAIRMAN MUSTIO: Feel free to start
17 when you're ready. You can pull the microphone a little
18 closer to you.

19 MS. SAWYER: Closer?

20 MAJORITY CHAIRMAN MUSTIO: Closer, that would
21 help, yes.

22 MS. SAWYER: Okay. Good morning, Chairman
23 Mustio, Chairman Readshaw, and other Members of the House
24 Professional Licensure Committee. As mentioned, my name is
25 Marjorie Sawyer. I'm the Director of Public Health

1 Sciences Curriculum at Penn State Hershey College of
2 Medicine. I'm also the Secretary of the Pennsylvania
3 Society of Radiologic Technologists, or PSRT, and I am a
4 registered radiologic technologist.

5 I appreciate the opportunity to testify here
6 about House Bill 1545, sponsored by Representative Cutler.

7 Pennsylvania is home to over 17,000 medical
8 imaging professionals who work in the health care industry.
9 PSRT works on behalf of these professionals and represents
10 both radiologic technologists and the patients they serve.
11 PSRT is an affiliate of the American Society of Radiologic
12 Technologists (ASRT), and together, we have been working
13 with the American Registry of Radiologic Technologists
14 (ARRT), the Society of Diagnostic Medical Sonography
15 (SDMS), and the Society of Nuclear Medicine and Molecular
16 Imaging (SNMMI) to advocate for House Bill 1545.

17 We believe that the best way to ensure the safety
18 of every patient being exposed to ionizing radiation or who
19 is undergoing a medical imaging procedure is by making sure
20 that the professionals operating the medical imaging and
21 radiation therapy equipment are properly certified and
22 credentialed.

23 Undergoing diagnostic or therapeutic procedures
24 is often stressful and scary for patients. HB 1545 will
25 reassure patients that their treatments are being

1 administered safely and properly by qualified
2 technologists.

3 HB 1545 provides for the regulation,
4 certification, education, licensure, and scope of practice
5 standards for professionals performing sonography,
6 fluoroscopy, limited x-ray machine operation, magnetic
7 resonance imaging, nuclear medicine, radiation therapy, and
8 radiography. Radiological procedures, including x-rays,
9 radiation therapy, and nuclear medicine, use ionizing
10 radiation, which must be administered correctly or it could
11 be dangerous and extremely harmful for patients.

12 The bill does provide exemptions for certain
13 licensed practitioners, including physicians, dentists,
14 chiropractors, podiatrists, dental hygienists, resident
15 physicians and students attending medical school or medical
16 imaging educational programs, and those performing
17 sonography procedures that are limited in scope.

18 Licensure legislation is needed because
19 Pennsylvania is one of a small number of States, less than
20 10, that does not have specific laws for medical imaging
21 and radiation therapy personnel. Current standards are
22 located in several statutes and regulations. Department of
23 State oversees some qualifications for medical imaging
24 professionals and recognizes board certification, but there
25 is no consistency in how these laws and regulations are

1 applied. HB 1545 will remedy this situation and create
2 clear, consistent, and transparent regulations for medical
3 technologists in a variety of specialties.

4 Across the country, there are examples of
5 unqualified staff members using medical imaging equipment
6 on patients. In fact, in 2016 a doctor in State College
7 was charged with two felonies -- failure to provide
8 radiation protection and improper use of a monitoring
9 device -- because he allowed an unqualified staff member to
10 operate medical imaging equipment on at least 15 patients.
11 Unfortunately, in States with inconsistent medical imaging
12 personnel standards, situations like this are not uncommon.

13 To combat similar occurrences, HB 1545 creates a
14 board of medical imaging and radiation therapy to establish
15 qualifications for licensure and standards for radiologic
16 technologists, sonographers, radiologist assistants,
17 nuclear medicine technologists, and limited x-ray machine
18 operators. Board members will be experts in various
19 imaging or therapy disciplines and the makeup of the board
20 will include a diagnostic medical sonographer; a
21 radiologist assistant; a magnetic resonance technologist; a
22 nuclear medicine technologist; two practitioners who
23 supervise medical imaging, one of whom is a radiologist; a
24 radiation therapist; a radiographer; and a member of the
25 public. The board will establish education and continuing

1 education requirements to help make sure that all
2 professionals operating medical imaging equipment are
3 trained on the latest technology.

4 The Commonwealth must also ensure that these
5 medical professionals are properly certified by an
6 accredited organization. There are several organizations
7 that offer certification in medical imaging fields, but
8 some are not accredited and do not have clear and
9 transparent processes for their certification or
10 examination process. Patient safety is paramount, and one
11 of the best ways to ensure patient protections is by only
12 accepting certifications issued by accredited organizations
13 like the American Registry of Radiologic Technologists,
14 Nuclear Medicine Technology Certification Board, or
15 American Registry of Diagnostic Medical Sonography.

16 The Medical Imaging and Radiation Therapy Board
17 will also be able to investigate incidents where patient
18 safety may be at risk and take disciplinary action if
19 necessary. This will ensure that medical practices hire
20 educated personnel who are properly licensed and know how
21 to effectively operate imaging equipment.

22 PSRT, ASRT, ARRT, SDMS, and SNMMI believe that
23 Pennsylvania's citizens are entitled to protections from
24 improperly performed medical imaging and radiation
25 procedures. We encourage the Professional Licensure

1 Committee to take the first step to protecting
2 Pennsylvanians by passing HB 1545.

3 Thank you for your time and attention, and I'm
4 happy to answer any questions you might have.

5 MAJORITY CHAIRMAN MUSTIO: Thank you. Do any
6 Members have questions?

7 Just quickly, you cited the one practice in State
8 College that had a couple felonies. How would the
9 enactment of this legislation have prevented that?

10 MS. SAWYER: Well, by being limited to hiring a
11 licensed radiologic technologist to perform the exams. And
12 as provided in the bill, I believe there's some ability to
13 investigate these kinds of situations and come up with the
14 correct or proper if not legal solutions.

15 MAJORITY CHAIRMAN MUSTIO: And what is the group
16 that accredits the organizations that you identified there,
17 the ARRT, NMTCB, and the ARDMS? See, I can read those,
18 too. I don't know what they mean. But who does that
19 accrediting?

20 MS. SAWYER: I am not familiar with the
21 accrediting organization's name.

22 MAJORITY CHAIRMAN MUSTIO: Okay. But there is a
23 recognized group that does that?

24 MS. SAWYER: There is a recognized accreditation
25 group who accredits quite a few different types of medical

1 professionals.

2 MAJORITY CHAIRMAN MUSTIO: And then you've
3 indicated there's a group that does some accrediting that's
4 not recognized then, correct?

5 MS. SAWYER: There is, yes.

6 MAJORITY CHAIRMAN MUSTIO: Okay. Representative
7 Sonney.

8 REPRESENTATIVE SONNEY: Thank you, Mr. Chairman.
9 Good morning.

10 MS. SAWYER: Morning.

11 REPRESENTATIVE SONNEY: When you spoke about the
12 makeup of the board, you know, I don't think I'm going to
13 read through all these, but radiologist assistants,
14 magnetic --

15 MS. SAWYER: Resonance.

16 REPRESENTATIVE SONNEY: -- resonance
17 technologists, nuclear medicine technologists and you go
18 through all of these, are every one of those really a
19 separate discipline or are some people, you know, trained
20 and certified in many of those areas?

21 MS. SAWYER: Well, a lot of us are trained and
22 certified in overlapping areas. We are required to take a
23 different certification exam for each specialty that we
24 select after we are initially registered. But most
25 magnetic resonance technologists know more so than a

1 nuclear medicine technologist about their particular
2 specific requirements and processes. So I understand
3 nuclear medicine technology and magnetic resonance
4 technology, but I would not be expert in knowing how to
5 necessarily provide an opinion about it.

6 And we do have several representatives here
7 today, some from sonography, nuclear medicine. We don't
8 have a radiation therapy person here, but, for example,
9 most of us don't have any idea what goes on in radiation
10 therapy except the radiation therapy technologist. So it
11 is important to have several different ways of looking at
12 what will be necessary for the board to do.

13 REPRESENTATIVE SONNEY: And this is not always in
14 a hospital-type setting or it is?

15 MS. SAWYER: It is not. We have outpatient
16 centers all over the State who have each one of these
17 technologies in their practice, and while they do have some
18 cross-training between technologists, they do try to hire
19 whatever the specific technologist is for that modality.

20 REPRESENTATIVE SONNEY: So in the end, most of it
21 is very individual, trained per occupation I guess you
22 could say?

23 MS. SAWYER: Yes. Yes. I have a certification
24 in radiography and in bone densitometry. I performed
25 computer tomography for quite some time but didn't go

1 through the certification exam and training, so I would be
2 qualified to do it but not an expert in the technology.

3 REPRESENTATIVE SONNEY: And just out of
4 curiosity, what would be your specialty then?

5 MS. SAWYER: My specialty is bone densitometry.

6 REPRESENTATIVE SONNEY: Thank you. Thank you,
7 Mr. Chairman.

8 MAJORITY CHAIRMAN MUSTIO: Thank you. I also
9 wanted to recognize Representative Day has joined us as
10 well, and I believe you have a question. Is that right?

11 REPRESENTATIVE DAY: Yes, Thank you, Mr.
12 Chairman.

13 What role do the organizations that you
14 mentioned, the American Registry for Radiologic
15 Technologists, Nuclear Medicine Technology Certification
16 Board, and the American Registry for Diagnostic Medical
17 Sonography -- what role do those organizations play in two
18 functions? One, providing a complaint procedure for
19 patient; and two, you know, testing or making someone
20 unaccredited?

21 MS. SAWYER: I know for certain about the ARRT,
22 the American Registry for Radiologic Technologists, because
23 that's who certifies me or who registered me. And I
24 believe that the other organizations do the same thing.
25 That organization is designed to create the certification

1 exams, test and retest and provide the scoring mechanism
2 for those exams, maintaining the annual or biannual fee
3 structure for maintaining that registration. They do have
4 a formal process for complaints from the public and do have
5 several levels of sanction for personnel who are either
6 trying to impersonate a technologist with fake credentials
7 or a number of different things that they can -- processes
8 that they can go through, including legal process. I'm
9 sure that the Society of Nuclear Medicine has the same --
10 that registry has the same thing, and each other's have
11 exactly the same thing for their specialty.

12 REPRESENTATIVE DAY: I want to give you the
13 opportunity to address why the State licensing board would
14 be required then if there's other organizations that
15 provide that.

16 MS. SAWYER: Well, for the most part, the State
17 College example is a perfect example. If we don't have a
18 State-controlled licensure, then we aren't aware of the
19 17,000 radiologic technologists in this State who are
20 either practicing or not practicing. The ARRT has those
21 particular numbers, but they don't, on a State-by-State
22 basis, check to make sure that all of those people who are
23 employed are in fact registered technologists. So it would
24 be I suppose fairly easy to hire someone and have someone
25 train them or have them train themselves to perform x-rays

1 and no one would ever know about it. And the only way that
2 we know about this one is because someone reported it to
3 authorities.

4 So there are ways of making sure that people that
5 are citizens get exactly what they need, but it would be
6 much more we think -- I was going to give an -- let me give
7 you an example.

8 REPRESENTATIVE DAY: You know what, you've
9 answered fine.

10 MS. SAWYER: Okay. All right.

11 REPRESENTATIVE DAY: Just in the interest of
12 time, I just want to take you off the hook and say that was
13 what I was looking for --

14 MS. SAWYER: All right.

15 REPRESENTATIVE DAY: -- is just your thoughts on
16 the matter. Thank you, Mr. Chair.

17 MAJORITY CHAIRMAN MUSTIO: Thank you. I also
18 wanted to recognize that Representative Briggs is here as
19 well.

20 Representative Kortz, you have a question?

21 REPRESENTATIVE KORTZ: Thank you, Mr. Chairman.
22 And thank you for your testimony.

23 Yesterday, we heard testimony from the medical
24 physicists, and they told us that there are certain
25 procedures they have to collaborate with the physician and

1 I guess yourself. In your experience, how many procedures
2 or how many times, percentage maybe, that you've had to
3 have the medical physicist with you during a procedure?
4 I'm just curious.

5 MS. SAWYER: That would be rare. Most medical
6 physicists in any situation are primarily working with
7 radiation therapy personnel to design treatment protocols.
8 And so on a regular basis in my experience I rarely ever
9 worked with a medical physicist except if there were
10 perhaps new equipment that was installed and they needed to
11 test it for the output or to make sure that it was safe,
12 that sort of thing. But on a daily basis, it's very rare.

13 REPRESENTATIVE KORTZ: Okay. Thank you. Thank
14 you, Mr. Chairman.

15 MAJORITY CHAIRMAN MUSTIO: Thank you. I would
16 also like to recognize Chairman Gillespie is here. Good
17 morning.

18 Any other questions? Representative Knowles.

19 REPRESENTATIVE KNOWLES: Thank you, Mr. Chairman.
20 And thank you for agreeing to be here to testify. It is
21 very much appreciated.

22 It's my understanding that the ARRT requires all
23 registered professionals to have 24 hours of continuing ed.
24 every two years, and I guess I would just wonder why
25 wouldn't that be adequate?

1 MS. SAWYER: Well, it is adequate if you are a
2 registered technologist with the ARRT and need to maintain
3 your credential, but there are people who are doing x-ray
4 procedures that are not registered radiologic
5 technologists. And according to I believe a regulation
6 with DEP, the only other requirement for continuing
7 education I believe is two hours every two years or one
8 hour every two years of radiation protection, but besides
9 that, no way of maintaining continuing education. So for
10 registered radiologic technologists, that's good, but we
11 also need to make sure that everyone in the State is
12 following those procedures as well.

13 REPRESENTATIVE KNOWLES: Thank you. Thank you,
14 Mr. Chairman.

15 MAJORITY CHAIRMAN MUSTIO: Thank you. Give me
16 one minute. Thank you. Are there any other questions from
17 Members?

18 Thank you for your testimony. Will you be
19 staying throughout the hearing?

20 MS. SAWYER: I will.

21 MAJORITY CHAIRMAN MUSTIO: Okay. In case some
22 Members have questions afterwards, that would be great.

23 MS. SAWYER: Absolutely.

24 MAJORITY CHAIRMAN MUSTIO: Thank you so much.

25 MS. SAWYER: Yes, thank you.

1 MAJORITY CHAIRMAN MUSTIO: All right. Our next
2 testifiers are from the Pennsylvania Radiological Society.
3 That would be Dr. Keith Haidet. Am I pronouncing that
4 correctly, sir? And Anthony Montagnese. That's wrong, I
5 know, but you're going to have an opportunity to correct
6 me.

7 We have your written testimony, and we've
8 allotted 20 minutes for testimony and questions.

9 DR. HAIDET: Yes.

10 MAJORITY CHAIRMAN MUSTIO: So if you could in
11 some capacity kind of summarize the testimony. Maybe there
12 were some questions that were asked for the previous
13 testifier that you could maybe expand upon as well if you
14 feel the need to do so. But our interest today is to get
15 as much information on the legislation as we can.

16 DR. HAIDET: Yes. I promise you I'm not going to
17 read my testimony. I'm just going to point out a few brief
18 points actually.

19 MAJORITY CHAIRMAN MUSTIO: Thank you.

20 DR. HAIDET: So my name is Keith Haidet, and I
21 brought with me Tony Montagnese. I'm currently a
22 practicing diagnostic radiologist 30 years in practice
23 currently at Lancaster General Health, and I'm here
24 representing the Pennsylvania Radiological Society as
25 President of the Society. And I'm testifying on behalf of

1 passage of House Bill 1545.

2 I'm here because the Pennsylvania Radiological
3 Society Chapter of the American College of Radiology is an
4 organization of over 1,600 members representing
5 radiologists, radiation oncologists, and radiation
6 physicists from across the Commonwealth. We have
7 approximately half of the radiologists in the State are
8 members of our society. And our mission includes the
9 advancement of the science of radiology, improvement in
10 radiology services to patients in the medical community,
11 and the establishment of high medical and ethical standards
12 in the practice of radiology, also supported by our parent
13 organization the American College of Radiology.

14 So you have my testimony. It's lengthy. And I
15 submitted several articles to you in support of that
16 testimony, but I want to just point out a few things. This
17 process for me has actually been quite an education process
18 in terms of how facilities are surveyed. And, you know, I
19 grew up -- I've been a member of a hospital environment all
20 of my practicing career, so I kind of know how hospital
21 surveys go and how JCAHO operates and how the Department of
22 Health operates. I have also been Director of a radiology
23 office and I had a very good practice manager who took care
24 of all of our Department of Environmental Protection
25 surveys. So the DEP surveys have been a little bit more of

1 an education for me.

2 And it's my understanding that private offices in
3 the State, nonhospital offices have really come under the
4 Bureau of Radiation Protection of the Department of
5 Environmental Protection and that hospitals pretty much
6 come under the purview of the Department of Health and our
7 parent certifying organization, the Joint Commission.

8 So I'll just read to you my delving into what's
9 actually required for people who are clicking the shutters
10 of radiation instruments by the Department of Environmental
11 Protection. And I've been directed to Regulation 25,
12 Chapter 221, which deals with radiation certification. And
13 I'll just read to you -- you're probably familiar with
14 them, but I'll read you the training requirements. They
15 divide it into high-risk procedures and low-risk
16 procedures.

17 And under high-risk procedures, it's stated, "The
18 registrant shall require each operator who performs high-
19 risk procedures at its facility to be an individual who
20 either, A) has certification in the applicable specialty by
21 a professional organization" such as ARRT, and it's not an
22 and; either has that certification or "has demonstrated a
23 minimum of eight contact hours of training" that includes
24 topics listed in an appendix. So the base minimum is just
25 eight hours of training for high-risk radiation procedures.

1 And then the CME is three contact hours of continuing
2 education every three years, that's it.

3 For low-risk procedures, it's even less, so it
4 says, "The registrant shall require each operator who
5 performs low-risk procedures in a facility is authorized by
6 the Department of State professional vocational standards
7 to administer x-rays on humans, have certification in the
8 applicable specialty by a professional organization,"
9 again, such as ARRT, "or has demonstrated a minimum of four
10 contact hours of training" that include the topics in the
11 appendix, so a minimum of just four hours of training.

12 And their continuing education is two contact
13 hours of continuing education every four years in topics
14 included in the appendix. So that's the certification
15 standard to which people who are required -- and these are
16 for machines that are registered with the State.

17 I've kind of delved around and say, so if
18 somebody puts up a radiation machine in the State and
19 doesn't register it, how does the DEP find out about them?
20 I'm not aware of tracking through the payers, that they
21 don't go to the payers and say who's submitting bills here?
22 I've been told they kind of -- agents drive by and if they
23 see a podiatrist's office or a chiropractor's office or
24 whatever, they stop in and they check them out. It seems
25 just kind of a bit hit or miss to me.

1 Now, I'm going to go on the hospital side. So I
2 have a paragraph that talks about JCAHO, and I looked in
3 the latest certifications for what JCAHO really requires
4 people who are delivering the radiation in hospitals, and
5 their standards are kind of limited, too. They're very
6 heavy on -- I was at the hearing yesterday on medical
7 physicists, so they're very specific in the training of a
8 medical physicist. They have to be certified and trained
9 to the hilt. But when it comes to technologists who are
10 running CAT scanners or MRI machines, they basically just
11 state that "The critical access hospital verifies and
12 documents that technologists who perform diagnostic
13 computed tomography examinations participate in ongoing
14 education." And they specify some broad areas under which
15 that training should occur. They don't talk about contact
16 hours or a base certification or any of the such.

17 And same with MRI. "The critical access hospital
18 verifies and documents that technologists who perform
19 magnetic resonance imaging examinations participate in
20 ongoing education that includes annual training and safe
21 MRI practices." And that's just a general statement.

22 So it's basically up to the hospital and the
23 health system to certify that their people who are doing
24 the imaging have the appropriate certifications and
25 qualifications. And again, it comes down to the medical

1 office and the physicians who run that office to assure
2 that their personnel who are delivering radiation doses
3 have training beyond this base minimum.

4 So in my testimony I've included a lot of
5 verbiage about the ACR technical standard for the
6 management of the use of radiation and fluoroscopic
7 procedures. It's just one of the things that the American
8 College of Radiography, our parent organization, mandates a
9 training standard. And you can read the whole training
10 standard. But it's lengthy and the amount of contact
11 hours, the amount of continuing education, and the amount
12 of base certification is far greater than what's required
13 by the DEP for people who are giving radiation in a private
14 office.

15 And the scope of this, if you want to look at,
16 you know, who's all doing this, there are -- you can
17 probably guess yourselves, veterinarian offices, podiatry
18 offices, chiropractors, all the dental specialties. And
19 when you get into the high-end dental specialties, they
20 have portable CAT scanners to do imaging for dental
21 implants, so that's delivering more radiation than just a
22 simple x-ray machine that's just taking a picture of select
23 teeth. So it's a wide range of people who are delivering
24 radiation on a daily basis to the people of the State of
25 Pennsylvania.

1 Just to finish, at the end of my testimony I have
2 several scientific reports and public media reports about
3 radiation injuries. You heard about one in State College.
4 Several of these occurred in California where people in a
5 facility were getting way over the greater dose of
6 radiation than allowed by CAT scanners for periods of
7 months, and that sort of jogged the JCAHO and a lot of the
8 certifying organizations to pay attention to this.

9 If you look at several of those organizations,
10 the International Atomic Energy Agency, the CMS Centers for
11 Medicare and Medicaid, Nuclear Regulatory Commission, Food
12 and Drug Administration, if you look at their regulations
13 for who delivers radiation, they're far more stringent than
14 the DEP regulations that I just read to you.

15 So, again, that's the reason why I believe this
16 type of certification or board licensure is necessary to
17 sort of rein all this in and have some sort of overarching
18 control in all the individuals who are being involved in
19 radiation procedures in the State. So thank you again,
20 Chairman Mustio, Chairman Readshaw, and all Members of the
21 Committee, for allowing me to testify, and I'm free to
22 answer questions or I can have Tony speak since we're kind
23 of in tandem, and then we'll answer questions after that.

24 MAJORITY CHAIRMAN MUSTIO: Yes, I think we'll
25 have Tony speak first and then we'll --

1 DR. HAIDET: Yes.

2 MAJORITY CHAIRMAN MUSTIO: -- open it up. Thank
3 you.

4 MR. MONTAGNESE: Thank you, and good morning. I
5 appreciate this opportunity to talk to you. And with all
6 due respect and for the record, it's pronounced
7 Montagnese --

8 MAJORITY CHAIRMAN MUSTIO: Thank you, Tony.

9 MR. MONTAGNESE: -- but I've heard every
10 variation --

11 MAJORITY CHAIRMAN MUSTIO: I'll call you Tony.

12 MR. MONTAGNESE: -- my whole life, so I'm used to
13 that.

14 Thank you. I am by training and experience a
15 board-certified medical physicist practicing primarily at
16 Lancaster General Health in Lancaster. I'm here today in
17 support of House Bill 1545. I wanted to also mention that
18 I volunteer on a committee, a subcommittee for the DEP
19 called Radiation Protection Advisory Committee with Dave
20 Allard, and some of you may know him and some of the other
21 members of the Bureau of Radiation Protection. So I helped
22 to formulate the regulations that mandate certain
23 restrictions and requirements for machines and operations
24 and things like that.

25 I'm in somewhat of a unique position as a medical

1 physicist in that I'm neither the person that operates the
2 machine, nor am I the individual provider who evaluates the
3 images like Dr. Haidet, but I am charged with ensuring that
4 the individual who operates the machines is in a radiation-
5 safe environment and that the patient is receiving as
6 little radiation dose as necessary to produce a high-
7 quality diagnostic image, and that the general public are
8 not unnecessarily exposed to radiation from these
9 activities.

10 In this capacity, I've seen my fair share of
11 equipment malfunctions or miscalibrations and failures of
12 policy or procedure. But, in my opinion, there is no
13 greater risk to the patient than from an improperly trained
14 or educated technologist or therapist. These individuals
15 are required to make decisions on a daily basis that impact
16 the amount of radiation dose a patient receives, as well as
17 the quality of the images that a radiologist or other
18 physician must use to diagnose disease or conditions.

19 Even with the remarkable technological advances
20 that Representative Cutler was talking about earlier, I
21 have witnessed in my career all these different advances
22 but nothing has changed the fact that there's a very human
23 element in the technologist that operates these machines.
24 If they select incorrect machine settings, position the
25 patient incorrectly, or misuse the very advanced software

1 that they use these days, there can be repercussions to the
2 patient.

3 Now, fortunately, like Dr. Haidet, I'm primarily
4 based in a hospital where there's oversight from the Joint
5 Commission, and those technologists are certified by their
6 respective agencies. But, as Dr. Haidet pointed out, they
7 fall under this purview that others in clinical settings,
8 doctor's offices may not. I have interacted with those
9 individuals as well and oftentimes I get concerned about
10 their qualifications and their understanding of the type of
11 radiation injury they can incur on patients if they don't
12 operate them properly.

13 A quick check of the Bureau of Radiation
14 Protection website will show you that there's nearly 15,000
15 registrants of x-ray machines in Pennsylvania. That is
16 15,000 individual sites that have an x-ray-producing
17 machine. Only about 2 percent of those are hospital
18 facilities, which means only about 2 percent of them are
19 required to have qualifications of their technologists
20 under Joint Commission purview.

21 So, in conclusion, my support is based on the
22 belief that the citizens of our Commonwealth deserve peace
23 of mind and confidence that any diagnostic or therapeutic
24 medical or dental procedure they receive which involves the
25 application of ionizing radiation has been delivered by an

1 individual with verified competence and experience. Such a
2 measure will reduce the number of unnecessary or repeated
3 exams, thus reducing the overall radiation burden on the
4 patient population of Pennsylvania.

5 So I'll end it with that and be happy to take
6 questions.

7 MAJORITY CHAIRMAN MUSTIO: Thank you.
8 Representative Knowles.

9 REPRESENTATIVE KNOWLES: Thanks, Mr. Chairman.
10 And thank you both for being here.

11 I don't even know whether this has anything to do
12 with the bill, but I'm curious and have always been
13 curious. Whenever I go for a medical imaging process, I'm
14 one of those guys who sits there and when the gal or guy
15 comes up, I go, "How's it look?" And they say, "Well, we
16 can't tell you that. You've got to talk to the doctor."
17 So I guess my first question would be the technicians
18 themselves that do the MRIs or that do the CAT scans, what
19 exactly is their job? Is their job just to simply make
20 sure that the image is a good image and one that a doctor
21 can read or can you just -- it'll be worth my trip from
22 Schuylkill County just to hear the answer to that.

23 DR. HAIDET: So I'll start and Tony can add in.
24 So their job is actually incredibly critical from my
25 perspective as a diagnostic radiologist. They have to,

1 number one, be sure they're operating the machine in a safe
2 environment and at a safe level. So our technologist, for
3 example, on MRI are absolutely fanatical about screening
4 patients for metal in their bodies that might twist or turn
5 in the machine that might kill a patient. So we go through
6 an extensive screening procedure when they come for an MRI
7 exam. They also want to operate the machine at a level --
8 and some of these machines, especially CT and MRI and
9 ultrasound as well are incredibly technical, so there's a
10 lot of choices to be made in the performance of a procedure
11 to be able to produce an adequate image for interpretation.
12 And if they don't make those choices appropriately, the
13 image can deteriorate so incredibly that the exam becomes
14 essentially uninterpretable. And we've had that.

15 And patients can be challenging. Patients who
16 have a large BMI, body mass index, patients who are moving,
17 patients who are not cooperative, they have to deal with
18 all of this and still come out with an interpretable exam.
19 And they also, as Tony said, have to not do repeats.
20 Especially when you're repeating x-rays, you're essentially
21 doubling up the dose on someone. So every time you repeat,
22 you've basically dosed them twice.

23 So to me, they're actually my right hand. If I
24 can't be in the room with a procedure -- and in fact, given
25 their level of technical expertise, I can't go to the level

1 if they're well-trained and certified to be able to do what
2 they do. So if they're not up to snuff, we don't have an
3 exam and the patient can't be treated because a lot of
4 times an imaging procedure sets up the whole cascade for
5 how patient treatments occur in hospital environments and
6 in imaging offices.

7 MR. MONTAGNESE: And I would just add to that
8 that I often watch the CT technologists, nuclear medicine
9 technologists, they'll get an order for an exam that will
10 simply say CT of the abdomen with a symptom of pain, and
11 they'll do the exam. And often they see things prior to
12 the radiologist seeing them, and they know that is
13 something I need to highlight. And they can do so with the
14 software. They can focus in on things and provide the
15 radiologist with additional images without additional
16 radiation through software to say, "Ah, look at that;
17 that's why he has pain." Now, he can't tell you, "This is
18 what I found." You're right, he can't say that to you, but
19 he can present this to Dr. Haidet and say, "Hey, I
20 highlighted that thing in the lower quadrant there that
21 looks a little suspicious." So those are the kind of day-
22 to-day, minute-by-minute decisions I think a qualified
23 technologist has to be able to make.

24 DR. HAIDET: One other thing that's really pretty
25 critical and that's becoming more important as time goes on

1 is in the organizations in which I've worked, they are the
2 first filter for inappropriate imaging exams, so not all
3 the -- physicians are not in this bill, I understand that,
4 but physicians are really driving the ship a lot of times.
5 They're involved in radiation procedures. They're ordering
6 these tests. And a lot of tests are ordered excessively
7 and inappropriately.

8 Our technologists basically screen those, and
9 they've been trained under certain guidelines as to what's
10 an appropriate exam and what's not, and they'll come back
11 to us or they'll be in contact with us and say, "Mr. So-
12 and-so is here for this exam but it's really not the right
13 exam, it's not appropriate, we really shouldn't be doing
14 it." And a lot of times those exams are canceled or
15 they're moved to a more appropriate exam. So they're the
16 first filter for even not doing inappropriate imaging.

17 MAJORITY CHAIRMAN MUSTIO: Thank you.

18 Representative Kortz.

19 REPRESENTATIVE KORTZ: Thank you, Mr. Chairman.

20 And thank you, gentlemen, for your testimony.

21 You both indicate support for House Bill 1545,
22 yet in your testimony you raise red flags about the small
23 dental offices, chiropractors, podiatrists. Are you
24 suggesting that we modify the bill to include the
25 physicians and the dentists? Raising the red flags here.

1 DR. HAIDET: I think that becomes --

2 REPRESENTATIVE KORTZ: I believe that's exempted
3 in the bill right now.

4 DR. HAIDET: Physicians are exempted, and that's
5 probably a discussion for another day. Physicians have a
6 licensing process in Pennsylvania, and potentially that, if
7 it needed to be, could potentially probably be addressed
8 through licensing. We address it in our hospital through
9 credentialing. Actually, Tony -- and most big health
10 systems probably do the same. Tony's in charge of ensuring
11 the radiation safety of all the patients who come into the
12 hospital by making sure the physicians are appropriately
13 trained. So to be credentialed in our hospital, we have to
14 take a radiation safety test every time we credential. And
15 it basically goes over all the effects of harmful
16 radiation, basically gives scenarios where you have to
17 choose, you know, what would you do in this scenario. And
18 Tony makes sure that test is updated and current. So in a
19 lot of places, that's how it's self-managed for physicians.

20 REPRESENTATIVE KORTZ: But dentists and
21 chiropractors, I mean, you're raising red flags there.

22 MR. MONTAGNESE: Well, by regulation, any
23 licensed practitioner may operate a radiation-producing
24 machine. And we're not proposing that we change that in
25 this bill. That is something that has been in existence

1 for quite a long time. So any physician, licensed medical
2 practitioner can operate the x-ray machine. Most of the
3 technologists realize that's a long shot that they would
4 know how to do so, but they can, and that's sort of a kink
5 in the system, no doubt about it.

6 REPRESENTATIVE KORTZ: Okay. Thank you. Thank
7 you, Mr. Chairman.

8 MAJORITY CHAIRMAN MUSTIO: Thank you. Chairman
9 Readshaw.

10 DEMOCRATIC CHAIRMAN READSHAW: Thank you,
11 Chairman.

12 Dr. Haidet, in the information you gave us in the
13 back there's tables which are entitled "Current Status of
14 Recommendations of the ACR Blue Ribbon Panel on Radiation
15 Dose in Medicine." And I didn't read all this so I may
16 have missed something. There's references to input from
17 2008 and 2010 from different individuals and doctors. How
18 current are these recommendations, this year, last year?

19 DR. HAIDET: Oh, no, you're talking the ACR white
20 paper on radiation dose in medicine. This was created in
21 2007, and then they reanalyzed it three years later. I
22 think, you know, we continue to make progress on these
23 regulations. Not all of them have come to fruition.
24 You're talking about these two tables, right?

25 DEMOCRATIC CHAIRMAN READSHAW: Correct.

1 DR. HAIDET: Yes, they give tables of progress.
2 I mean, basically, the American College of Radiology's
3 overall plan to try and ensure the radiation health of the
4 people of the Nation, and so it's a multipronged approach.
5 You know, some of it's basically getting to medical
6 students and medical schools and starting their radiation
7 training at a very early part in their careers so when they
8 come out as practicing physicians, they really have a
9 better understanding of radiation training. That does not
10 occur uniformly in the medical schools in this country.
11 So, I mean, a lot of these are works in progress, so there
12 has not been an update since 2010 to see where we are in
13 this specific format, but we continue to make progress
14 along those lines.

15 DEMOCRATIC CHAIRMAN READSHAW: Thank you, Doctor.

16 Thank you, Mr. Chairman.

17 MAJORITY CHAIRMAN MUSTIO: Thank you. And I
18 wanted to thank you both of you for your testimony.

19 Tony, if you would work with our staff, I think
20 we need to ask appropriate questions to the DEP --

21 MR. MONTAGNESE: Absolutely.

22 MAJORITY CHAIRMAN MUSTIO: -- to solicit
23 information from them that will help move this issue along.

24 Is that okay?

25 MR. MONTAGNESE: Absolutely.

1 MAJORITY CHAIRMAN MUSTIO: All right. Thank you.

2 I'd also like to welcome Representative Harris to
3 the hearing today as well.

4 The next testifier will be Cheryl Rickley, CNMT,
5 from the Society of Nuclear Medicine and Molecular Imaging.

6 MS. RICKLEY: Thank you and good morning.

7 MAJORITY CHAIRMAN MUSTIO: Good morning.

8 MS. RICKLEY: I know you have my testimony in
9 front of you. We sent that ahead of time, and I'm not
10 going to read that. And I guess thank you to Mardi and Dr.
11 Haidet because they've pretty much read most of the stuff I
12 have.

13 But with that being said, there's a few key
14 points that I want to address as a certified board nuclear
15 medicine technologist. I am licensed to practice, and I
16 trained in the United States Army through the Naval
17 Sciences of Bethesda, Maryland, and I spent 11 years
18 practicing nuclear medicine while I served my country. I
19 was shocked when I got out of the service and found out
20 that there were still 13 States that do not require me to
21 have a license to practice nuclear medicine, and
22 Pennsylvania is one of those.

23 Pennsylvania has 13 million people that live in
24 the Commonwealth of Pennsylvania. I'm one of them. And
25 currently, you know, when I think of Commonwealth of

1 Pennsylvania doesn't have a uniform standard to ensure
2 patients that the individual performing their nuclear
3 medicine procedures have the appropriate education,
4 training, board certification to protect them from harmful
5 effects of excessive and improperly performed medical
6 imaging or radiation procedures, that quite frankly scares
7 me.

8 When we look at our patients and they approach us
9 today, they're asking real critical questions. Are you
10 licensed to do this? Yes, I am. But in Pennsylvania,
11 everyone is not. Our patients are very well-educated like
12 us, and when I have to turn them and say to them thank you
13 for asking that question, I shouldn't have to ask that
14 question. The State of Pennsylvania should ensure that
15 there's a mandatory State licensing to practice nuclear
16 medicine from a technologist. You ask the physicians to be
17 State-certified, State-licensed, but you don't ask me.

18 Here's what I do every day in my field. I see
19 patients, I educate students, and I take care of all the
20 logistics that runs my department. In this, just to share
21 a little bit with you because you may not know,
22 radiobiology, radioprotection, radiation physics,
23 instrumentation, nuclear pharmacy and pharmacological,
24 diagnostic procedures, clinical education, radionuclide
25 therapy, and incorporating the emerging technologies such

1 as PET/CT, SPECT/CT, and, most recently, PET/MR. If we
2 continue to not have mandatory licensing for these things,
3 more medical mistakes are going to take place.

4 Speaking of which, the number-one and number-two
5 leading cause of death in the U.S. is heart condition and
6 cancer. Every one of these patients that we manage day-to-
7 day require some form of medical imaging. These exams need
8 to be performed by licensed professionals, not someone who
9 got two hours of continued education or on-the-job
10 training. This is serious business. Because when they
11 make a mistake, it leads to the third-leading cause of
12 death in the U.S., which is medical mistakes, medical
13 mistakes by human errors. That is a \$19 billion industry
14 deficit to the health care industry. Do we want that in
15 Pennsylvania? No.

16 I'm here to tell you I'm in support of this bill,
17 and I'm relying on you guys to push it forward.

18 In closing, today, you will hear from several
19 societies that are in support of this bill. We're here as
20 the medical imaging professionals saying please, let's put
21 a mandatory license in the State of Pennsylvania as soon as
22 possible.

23 That's all I have. Everyone else got everything
24 out so I get to keep it really brief.

25 MAJORITY CHAIRMAN MUSTIO: You get a star.

1 MS. RICKLEY: May I say one more thing?

2 MAJORITY CHAIRMAN MUSTIO: Oh, you got your star.

3 MS. RICKLEY: I just want to acknowledge
4 Representative Jerry Knowles for saying when you ask that
5 question what do we actually do, we do a lot. We are
6 restrained by the health care industry as to can we discuss
7 your results. We can't. We do know them, but we're not
8 allowed to discuss it. We'd like to get that changed as
9 well.

10 REPRESENTATIVE KNOWLES: I'll just look at your
11 face.

12 MS. RICKLEY: What?

13 REPRESENTATIVE KNOWLES: I'll just look on your
14 face.

15 MS. RICKLEY: But if you come to me for your
16 health care and you ask to see the pictures, I am so proud
17 of what I do, I will share your pictures with you and I
18 will explain the anatomy and the physiology associated with
19 the exam I just performed on you. And every technologist
20 that works for me at Jefferson University Hospital, we will
21 do the same. It is what we're here to do. We take care of
22 patients, and all of us agree that safety is the number-one
23 priority.

24 You know, and on behalf of the Society of Nuclear
25 Medicine and Molecular Imaging, wow, is that a lot, we

1 really take this to heart, and we're here to work with you.
2 We're not going to walk out that door and say good luck.
3 No, we're going to walk this all the way up the stairs with
4 you. Does anybody have any questions for me?

5 MAJORITY CHAIRMAN MUSTIO: Yes. We're going to
6 get to that.

7 MS. RICKLEY: All right.

8 MAJORITY CHAIRMAN MUSTIO: Just a second.
9 Representative Knowles, yes, you get your star, too.

10 Representative Kortz.

11 REPRESENTATIVE KORTZ: Thank you, Mr. Chairman.
12 Could I have a star also?

13 MAJORITY CHAIRMAN MUSTIO: No.

14 REPRESENTATIVE KORTZ: Okay. Thank you. Thank
15 you for your testimony.

16 MS. RICKLEY: Thank you.

17 REPRESENTATIVE KORTZ: Question, how often do you
18 work with a medical physicist?

19 MS. RICKLEY: We work with the medical physicist
20 quite often in nuclear medicine because we're doing the
21 therapies on the patients. Our cancer patients have to
22 have some type of therapy, and a medical physicist comes in
23 and helps perform that.

24 REPRESENTATIVE KORTZ: So is it 90 percent of the
25 time, 80 percent?

1 MS. RICKLEY: I'm going to say to you more than
2 60 percent of the time --

3 REPRESENTATIVE KORTZ: Okay.

4 MS. RICKLEY: -- because half my day is
5 diagnostic and half my day is therapeutic.

6 REPRESENTATIVE KORTZ: Okay. Thank you.

7 MS. RICKLEY: You're welcome.

8 REPRESENTATIVE KORTZ: Thank you, Mr. Chairman.

9 MAJORITY CHAIRMAN MUSTIO: Any other Members with
10 questions?

11 Cheryl, would this be an appropriate comment?
12 You work with a tool that could kill or miss an opportunity
13 to save a life if used improperly?

14 MS. RICKLEY: Pardon me, sir?

15 MAJORITY CHAIRMAN MUSTIO: If used improperly?

16 MS. RICKLEY: Absolutely.

17 MAJORITY CHAIRMAN MUSTIO: And I suspect,
18 Members, that trial lawyers probably oppose this bill.
19 That's just an aside based on your comments, right?

20 MS. RICKLEY: Correct.

21 MAJORITY CHAIRMAN MUSTIO: Thank you very much.
22 And hopefully, you'll stick around, too, for some
23 additional questions afterwards.

24 MS. RICKLEY: Absolutely. Thank you.

25 MAJORITY CHAIRMAN MUSTIO: Thank you. I'm

1 telling you, Members, you're going to miss me.

2 The next testifier is James Coffin from American
3 Registry of Magnetic Resonance Imaging Technologists.

4 MR. COFFIN: When I first had the nonprofit
5 organization set up, it was called the Registry of MRI
6 Technologists, and the person at the bank -- because we had
7 to set up a bank account -- goes, "Is this a church?" I
8 said, "No, a registry, not ministry." Anyway --

9 MAJORITY CHAIRMAN MUSTIO: Okay.

10 MR. COFFIN: -- that was the confusion. Anyway,
11 I think my testimony has been submitted, and it is kind of
12 an edit and an addendum to the letter that we sent to the
13 Committee with a volume of documentation. The reason it's
14 an edit or an addendum is because since that time, New
15 Hampshire, which went through this process -- and they're
16 not the only State that's going through this process -- had
17 excluded our organization from their bill. But once we
18 educated the legislators and gave them the same
19 information, they have since then added us in, which is
20 rightfully so.

21 We've been certifying MRI techs. We are the
22 first and only MRI technologist-certifying organization in
23 the Nation, not as a subspecialty but a specialty. We also
24 promote MRI education. And I challenge anybody in this
25 room to tell me of a full MRI program leading to a career

1 one year or more, hopefully two years with at least 1,000
2 hours of clinical, which most educational programs in x-ray
3 and ultrasound and nuclear medicine would require in the
4 State of Pennsylvania. The ones that might exist might be
5 in a community college as an addendum to x-ray, but MRI has
6 nothing to do with x-ray.

7 I would also like to address that the ASRT has
8 many chapters, and they're promoting these bills throughout
9 the country. And the ones that are getting by us is
10 because at the time we didn't have that service known as
11 LexisNexis, but now we're on top. We find out about it
12 right away. And I just educated the legislators in
13 Alabama, and I got a call from their medical society and
14 the newspaper *Anniston Star*, and the guy at the *Anniston*
15 *Star* says, "So is this a big group trying to push out a
16 small group?" And I said, "Well, that's one aspect." And
17 they are also addressing this.

18 We're dealing with Tennessee also and I'm
19 expecting more to come. But the five States that are
20 solid, one includes New Mexico, and I want to educate you a
21 little bit about New Mexico is that we work directly with
22 the ASRT on the New Mexico legislation, but it turned out
23 after four years, in the first three they were trying to
24 exclude us until their Office of General Counsel told them
25 you can't. We've been around for 27 years. We're

1 recognized under the MIPPA bill. We're recognized by the
2 four accrediting bodies, the ACR, the Joint Commission, the
3 IAC, and the RadSite.org, all recognized by Centers for
4 Medicare and Medicaid Services.

5 And I would just address that to you that the
6 MIPPA law was passed in 2008, became effective in 2012, and
7 what it said was all imaging sites doing medical imaging on
8 the level of MRI, CT, and CAT scan at that time should be
9 accredited by one of those four bodies. We're recognized
10 by all four. In 2012, they enhanced the bill. They said
11 now hospitals are included and ultrasound.

12 So I do want to say that we are not against
13 licensure, as long as it does not create an unlevel playing
14 field or exclude people who are currently working. Now, we
15 only have 11 members in this State, and one of them is
16 working in Jersey, so he's a little bit of a traitor.

17 But the gentleman over here, the Representative
18 had asked why do you need to do it if we're doing it? If
19 we're doing a good job certifying and we're under the
20 national requirements, why does the State have to get
21 involved? It's a question you should ask because I know
22 the first State to license all imaging was West Virginia,
23 and they came to our organization's annual meeting to make
24 sure of who we were and we were included. Well, last year,
25 their legislature tried to end the bill and say we don't

1 need to do this. We really thought it was a money-saving
2 issue, but I think some of their legislators said all of
3 these people are required to be certified. Do some of them
4 fall through the cracks? Yes. But the fact is it's our
5 job to stop that from happening, but it's also on the level
6 of the imaging side itself.

7 In MRI, we had many times our techs are asked to
8 inject even though it's not iodine-related, it's only for
9 their modality, there's no radiologist to be found. And
10 when they say, "Hold it, there's supposed to be a doctor
11 here," "Oh, you just do your job or you're fired." That's
12 the way it is. That's only one issue of many.

13 The issues of magnetic safety, if techs come into
14 this field, which I am telling you right now, 85 to 90
15 percent of the techs in this country still today are on-
16 the-job trained, including x-ray techs, including nuclear
17 medicine techs. They knew no more about MRI than you do
18 right now. And I'm telling you also, doctors who refer for
19 MRI many times don't know the difference. I had a doctor
20 argue with me that MRI had just as much if not more
21 radiation than a CAT scan. He was a young guy, I kind of
22 let him go, but I even showed him my card that says I'm the
23 President of the Registry of MRI Techs.

24 So the issue here is we need more MRI education,
25 not less. We need fair and a level playing field in the

1 requirements if the States are going to get involved. And
2 other States have done just that, and they have included
3 our certification, which is what we are asking you to do
4 here. We think it's the right thing to do, it's the fair
5 thing to do, and we do a very good job.

6 Anyway, if you have any questions for me, I don't
7 think there's anything else I wanted to say. Oh, I would
8 also question that some of the students in this audience,
9 if they had the choice to go to an MRI school instead of an
10 x-ray school or an ultrasound school, just one of many, a
11 menu -- not everybody wants to do MRI. Not everybody wants
12 to do nuclear medicine. But do they have that choice where
13 they say I want to go to x-ray school, your children, your
14 grandchildren, whoever they may be, say, "I want to be an
15 MRI tech." I get calls every day about it. Do they have
16 that choice? I think maybe eight States have real MRI
17 programs, all licensed by their State, accredited by
18 Department of Education accrediting bodies.

19 And I would like to say that this bill does not
20 have all the DOE accrediting bodies listed, so it would
21 exclude some schools who are probably doing a good job.

22 MAJORITY CHAIRMAN MUSTIO: All right. Thank you.

23 MR. COFFIN: So I really appreciate your
24 attention and the opportunity to testify.

25 MAJORITY CHAIRMAN MUSTIO: Members, do we have

1 any questions?

2 What I'd like to do at this point is thank you
3 very much. And I see some heads nodding in the back on a
4 couple of the comments that you made, Mr. Coffin. Students
5 are over here nodding in agreement. I know this is a
6 little out of the ordinary, but I would like to ask
7 Dr. Haidet to come back if you wouldn't mind. The purpose
8 of our Committee obviously is to get as much information as
9 we can, and there are a couple comments made by Mr. Coffin
10 as it relates to the MRI. And I believe in your testimony
11 you had also mentioned I thought MRIs, is that correct?

12 DR. HAIDET: I discussed MRI to some extent under
13 the JCAHO regulations --

14 MAJORITY CHAIRMAN MUSTIO: Right --

15 DR. HAIDET: -- for CT and MRI.

16 MAJORITY CHAIRMAN MUSTIO: -- and I just kind of
17 wanted to get your opinion on some of the comments that
18 were made and not necessarily to go back and forth, but we
19 don't have that opportunity all the time to have some
20 follow-up, so I'd like to do that. And then at the
21 conclusion of the hearing, we'll conclude it, and then if
22 Representative Cutler wants to make any comments, we'll let
23 him do that at that point.

24 DR. HAIDET: So I think the testimony given is
25 accurate as presented. Magnetic resonance and x-ray are

1 two entirely different things and have really an entirely
2 different set of training in physics and in technical
3 expertise. And he is correct in saying that they really
4 require separate certification. And since MRI is the
5 newest of all of these modalities, that's why you're seeing
6 a lot of the people doing MRI are on-the-job trained
7 because for a while there had not been a certifying
8 organization. Now, there is. And so we're finding that
9 more of our technologists are going back and getting their
10 MRI registries, getting certified in the ability to use
11 that equipment.

12 The danger in MRI kind of comes in twofold. One,
13 you're injecting contrast like you are in CT. In CAT scan,
14 you can have an iodine reaction, and that's well written
15 about. In MRI it's more insidious. You're giving
16 basically a heavy metal to a patient. The heavy metal
17 can't be given to pregnant women because it crosses the
18 placenta and can be toxic to a fetus. The heavy metal can
19 basically set you up in patients who have marginal renal
20 function, marginal kidney function to get a thing called
21 NSF, which is a fibrotic reaction that the body makes that
22 can be very damaging. So that's also been well-studied
23 recently. It's a recent phenomenon.

24 The other problem is you're in a magnet that is
25 more powerful than -- and the magnets are getting more

1 powerful -- than anything you have around. So its ability
2 -- we used to educate patients by taking a wrench on a
3 string and walking it around our magnet, and that's how you
4 can trace how the magnetic field looks. But the minute you
5 would bring that wrench into the room, that thing would
6 make a beeline to the center of the magnet, so everything
7 gets sucked to the center of the magnet where the field is
8 focused.

9 So if patients are not adequately screened for
10 metal, albeit aneurism clips in the brain, those things can
11 twist and twerk in the MRI field. They can also heat. If
12 you have wires and metal in your body, it can heat and
13 cause a heating reaction. So patients have to be very
14 carefully screened even as far as going to contacting the
15 manufacturer and finding out if it's MRI-safe before they
16 go inside the magnet.

17 MAJORITY CHAIRMAN MUSTIO: In real practice, who
18 does that screening? Is it a physician or is it the person
19 that's on-the-job training?

20 DR. HAIDET: No, we have a standard -- and Tony
21 can speak to this if necessary. I don't know if he gets
22 involved in it. We have a standard set of screening
23 procedures that are set up by a safety committee, so we
24 have an overall MRI safety committee that has both doctors
25 and technologists and managers on it. They set up the

1 guidelines for screening, but the actual on-the-boots
2 screening is done by the technologist before the patient
3 enters the magnet, so if they don't do that job carefully,
4 you can potentially get problems.

5 And I've seen severe heating and burns. We
6 screen patients -- so patients who have had any kind of
7 profession where there's involved grinding and metal in
8 their eyes or metal fragments in their eyes, they have to
9 be screened because, again, you can cause potentially
10 blindness. So we carefully screen the orbits, the brain,
11 and the rest of the -- pacemakers, now MRIs being used in
12 patients who don't have special kind of pacemakers that can
13 be put in the MRI, but they have to be screened because
14 what you can do with a pacemaker is basically they use a
15 magnet, a much smaller magnet on pacemakers to put them in
16 demand mode, which means they start to continually pace,
17 but they can continually pace; they can become erratic.
18 And patients who are absolutely dependent on their
19 pacemaker firing at a predictable pattern can potentially
20 be thrown off in a magnet.

21 MAJORITY CHAIRMAN MUSTIO: Well, thank you very
22 much. Any Members have follow-up? Yes, Representative
23 Knowles.

24 REPRESENTATIVE KNOWLES: Thank you, Doctor.
25 Doctor, shouldn't we be looking at how

1 manufacturers are using ionizing radiation as well? I
2 mean, I got to tell you, this I'm finding is very
3 interesting because I'm learning a lot here today.

4 DR. HAIDET: Me, too. So Tony can probably speak
5 even better to this. The equipment that's used -- so
6 there's regulation of the people who are using the
7 equipment and there's regulation of the equipment itself.
8 The equipment regulation is far more stringent. When I
9 look at the DEP regulations for somebody who has to
10 register a piece of equipment, there's a long list of
11 requirements that have to be made.

12 And that's where your people -- I see questions
13 constantly being asked about the medical physicists. You
14 know, I wanted to say the medical physicist is actually an
15 absolutely critical person in the chain. Those are the
16 persons that make sure that medical equipment functions
17 properly, does not deliver too much radiation, is safe, and
18 they're routinely involved in checking at least in our
19 health system all the equipment on a routine basis to make
20 sure it meets all the standards and qualifications and that
21 it's completely safe. And so the equipment is regulated
22 far more closely I think than the individuals who are using
23 it is my understanding after reading through all of this.
24 And Tony I think can vouch for that.

25 So the only other thing I would say just one as a

1 conclusion -- and maybe my testimony led you down a wrong
2 path. I understand that it's hard and it's costly to
3 create another licensing board. Licensing boards are
4 expensive. You potentially with this one would be
5 licensing a lot of people because, you know, there's 32,000
6 physicians in this State or around that amount. I'm not
7 sure, and maybe somebody can speak up, the number of
8 technologists, people who are actually producing the
9 radiation, Tony just said there's at least 15,000 private
10 facilities in the State that produce radiation, so you have
11 a much bigger body of people that you would be licensing.

12 The question becomes, you know, how do you rein
13 in and control all of this and set a uniform standard? I
14 think just buffing up the DEP regulations would probably
15 fall short of all the -- when you look at all the standards
16 of the licensing organizations that are necessary for
17 people to be adequately trained for this, just buffing up
18 the DEP regulations, unless you required certification by
19 those organizations as a must-have-this would probably fall
20 short of something that licensing could do.

21 MAJORITY CHAIRMAN MUSTIO: Chairman Gillespie.

22 REPRESENTATIVE GILLESPIE: Thank you. Just a
23 little different track here because it was mentioned by
24 several of you, and whoever would want to try to answer it,
25 it talked about getting too much radiation, not enough, 15

1 or 16,000 different places that do x-rays of one sort or
2 another, whether it's the dentist office or so forth. My
3 background was health care, but I'm really rather dated.

4 Can any of you comment on what the -- and maybe
5 this isn't the proper term -- the half-life of amount of
6 radiation that someone receives through diagnostic
7 radiology? Is it always there or does it dissipate after a
8 period of time, again, considering everything that was
9 discussed here this morning?

10 DR. HAIDET: Since our physicist is the most
11 qualified person in the room --

12 REPRESENTATIVE GILLESPIE: Great. Thank you.

13 DR. HAIDET: -- I'm going to let him speak.

14 MR. MONTAGNESE: Okay. Thank you. Half-life
15 really only applies to the application of nuclear medicine
16 studies. For a diagnostic study, the isotopes that are
17 used for those studies have a very short half-life. So the
18 patients contain radioactive material and are emitting
19 radioactive particles with half-lives in the range of 6 to
20 10, 12 hours, not too long. And it's such a low dose that
21 we can actually discharge them to the general public, and
22 they will not cause any significant risk to anybody else,
23 including spouses and people on the bus that they're
24 riding.

25 X-ray, totally different animal. The x-ray is

1 projected through the patient and is gone immediately.
2 It's done. It's over. So a patient that just had a CT
3 scan, for example, they are not radioactive or an x-ray, a
4 chest x-ray, they are not radioactive. Only the nuclear
5 medicine patients retain radioactivity for a short amount
6 of time, the only exception being if it's a therapeutic
7 procedure, they will maintain that radioactivity for a much
8 longer time and are under much greater restrictions on whom
9 they may interact with for a period of time, that kind of
10 thing. Does that answer --

11 REPRESENTATIVE GILLESPIE: Yes, I think we're
12 getting there. So somebody could have 10 chest x-rays over
13 the course of 10 days for whatever reason that may be, and
14 they are not going to be retaining any radiation
15 whatsoever?

16 MR. MONTAGNESE: None. And interestingly enough,
17 there is no regulatory limit on the number of x-rays a
18 patient may receive. There's also no regulatory limit on
19 the amount of radiation dose they may receive for any one
20 exam, the only exception being screening mammography. So
21 any facility can do repeated chest x-rays on a patient ad
22 infinitum per the doctor's orders, and, in addition, the
23 amount of radiation dose they give for those chest x-rays
24 is not regulated. So one facility may be giving a dose of
25 10 milliroentgen, the next one may be giving 50

1 milliroentgen, and there's no regulatory limit to stop
2 that.

3 REPRESENTATIVE GILLESPIE: Thank you, sir. Thank
4 you, Mr. Chairman.

5 MAJORITY CHAIRMAN MUSTIO: Thank you. Any other
6 questions?

7 All right. With that, Representative Cutler, if
8 you could bat cleanup here and kind of tie things together,
9 that'd be great.

10 REPRESENTATIVE CUTLER: Absolutely. Thank you,
11 Mr. Chairman. Thank you, Members of the Committee. Thank
12 you for everyone who came to testify today.

13 As I stated, when I started this originally, it
14 dealt with patient safety, and one of my concerns was the
15 fact of all the different decisions that were shown today
16 by the different modalities and the different methods by
17 which we collect medical information because each of these
18 areas -- and I believe it was Representative Sonney asked,
19 you know, specifics regarding the test.

20 You know, when I was in x-ray -- and while I keep
21 my license up -- I'm like Keith; I'm a little dated in
22 terms of some of my clinical skills. But when I was in x-
23 ray -- and to Mr. Coffin's point, you know, MR was solely,
24 you know, cross-training, on-the-job typically in the
25 evenings at that point, and truthfully, same thing with CT,

1 which is really where the main nexus lies with MR and the
2 rest of the imaging fields is the idea of cross-sectional
3 anatomy. That's probably the biggest section of overlap in
4 that regard.

5 And you were referencing the wrench, Dr. Haidet.
6 We had an experience -- and I'm sure if you ask some of
7 your partners, they will remember this -- where the
8 cleaning lady took in the mop and the bucket right after
9 the magnet was installed and it quickly affixed itself to
10 the side of the magnet and they weren't sure what to do and
11 made quite the mess because it did not go there slowly.

12 And, you know, one of the questions that came up
13 -- and I'll confess, Mr. Coffin, I was not aware of your
14 organization, but when you said that there were only 11
15 here and one went to --

16 MR. COFFIN: [inaudible] but your organization,
17 the ASRT, is very aware of us and, you know, that should
18 have been communicated because I've sat with Christina Long
19 many times over the last four years.

20 REPRESENTATIVE CUTLER: Understood, but it was
21 not, so I appreciate the information that you sent. I
22 would love to get that person from Jersey back, but they're
23 probably here because our taxes are a little more
24 favorable, and while we still could work on that, though,
25 as well.

1 MR. COFFIN: [inaudible]?

2 MAJORITY CHAIRMAN MUSTIO: No.

3 REPRESENTATIVE CUTLER: The other thing that I
4 would like to point out is there's a lot of blurring of the
5 lines in terms of medical imaging. When I started PET scan
6 and fusion MR were not clinically applicable yet. That's
7 where you take CT and nuke med and you meld the two fields
8 or MR and nuke med and you meld the two fields, so there's
9 a lot of overlap there.

10 And certainly, you know, one of the goals and one
11 of the problems quite frankly is the lack of our ability
12 for certifications to keep up with these new fields as they
13 develop, and that's something that came up at the
14 discussion at the Department of Environmental Protection
15 Board where we were discussing it.

16 At the end of the day I'm most interested in
17 keeping patients safe, making sure that we have qualified
18 technologists making all of the decisions that we do. We
19 certainly look forward to working with everybody here in
20 regards to each of your individual areas and your
21 certifications and the boards.

22 And I appreciate your time, Mr. Chairman. You
23 were very generous. Thank you.

24 MAJORITY CHAIRMAN MUSTIO: Thank you. I want to
25 point out to Members that in their packets there's also

1 some information provided by organizations that did not
2 testify or weren't able to make it to testify today.

3 I want to thank the Members, great questions,
4 thank the testifiers. We're on time. It's awesome.
5 Students and practitioners, thank you so much for showing
6 an interest. I think it's an incredible part of the
7 legislative process that you do so. And I know you all
8 took time away from your family lives or work or whatever
9 today, but this is all about the process, and a lot of
10 positive things came out today.

11 So you won't see this on the news, right? We
12 won't hear this on talk radio, we won't see it on any of
13 the networks, but this is how government is supposed to
14 work. And I want to thank you for participating.

15 I would encourage if possible that -- Chairman
16 Readshaw had a bill yesterday that we had testimony on, but
17 certainly we had some great input today from the
18 physicists. And if there's some way that possibly we could
19 also implement that in the chain of events that we learned
20 about today at some point, it might make it a very good
21 bill to get done.

22 But thank you very much, everybody.

23
24 (The hearing concluded at 10:49 a.m.)

1 I hereby certify that the foregoing proceedings
2 are a true and accurate transcription produced from audio
3 on the said proceedings and that this is a correct
4 transcript of the same.

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