THE OFFICE OF THE NATIONAL COORDINATOR FOR HEALTH INFORMATION TECHNOLOGY

MOBILE DEVICES ROUNDTABLE: SAFEGUARDING HEALTH INFORMATION

REAL WORLD USAGES AND REAL WORLD PRIVACY & SECURITY PRACTICES

Washington, D.C.

PARTICIPANTS:

Introduction/Housekeeping Remarks:

KATHRYN MARCHESINI, JD U.S. Department of Health and Human Services Office of the National Coordinator for Health Information Technology

Welcoming Speaker:

FARZAD MOSTASHARI, MD, ScM U.S. Department of Health and Human Services National Coordinator for Health Information Technology

PANEL I: SETTING THE FEDERAL STAGE: CURRENT REGULATORY FRAMEWORK, GUIDANCE, STANDARDS, AND TOOLKITS FOR PROVIDERS AND OTHER HEALTH CARE DELIVERY PROFESSIONALS USING MOBILE DEVICES

Moderator:

JOY PRITTS, JD U.S. Department of Health and Human Services Office of the National Coordinator for Health Information Technology Chief Privacy Officer

Panelists:

TIM GRANCE National Institute of Standards and Technology (NIST) Computer Security Division, Senior Computer Scientist

CORA TUNG HAN, JD Federal Trade Commission (FTC) Attorney, Division of Privacy and Identity Protection

PARTICIPANTS/PANELISTS (CONT'D):

GERALDINE MATISE, JD Federal Communications Commission (FCC) Chief, Policy and Rules Division Deputy Director, Office of Engineering and Technology OET)

SUSAN MCANDREW, JD U.S. Department of Health and Human Services Deputy Director, Office for Civil Rights (OCR)

BAKUL PATEL, MS, MBA Food and Drug Administration (FDA) Policy Advisor, Center for Devices and Radiological Health

PANEL II: REAL WORLD USAGES OF MOBILE DEVICES BY PROVIDERS AND OTHER HEALTH CARE DELIVERY PROVIDERS

Moderator:

JON WHITE, MD Agency for Healthcare Research and Quality (AHRQ)

Panelists:

JACOB DELAROSA, MD Cardiovascular Surgeon, Idaho State University Chief of Cardiothoracic and Endovascular Surgical Services, Portneuf Medical Center

LISA A. GALLAGHER, BSEE, CISM, CPHIMS Senior Director of Privacy and Security, Healthcare Information and Management Systems Society (HIMSS)

STEVEN JEFFERY HEILMAN, MD, FACEP Chief Medical Information Officer, Norton Healthcare

PARTICIPANTS/PANELISTS (CONT'D):

MERI SHAFFER, RN Clinical Systems Analyst, Montefiore Home Care

CHRISTOPHER H. TASHJIAN, MD, FAAFP President, River Falls, Ellsworth & Spring Valley Medical Clinics

PANEL III: REAL WORLD MOBILE DEVICE PRIVACY AND SECURITY PRACTICES, STRATEGIES, AND TECHNOLOGIES

Moderator:

DAVID HOLTZMAN, JD, CIPP/G Health Information Privacy Specialist U.S. Department of Health and Human Services, Office for Civil Rights (OCR)

Panelists:

SHARON FINNEY, CISM, CISSP Corporate Data Security Officer, Adventist Health System

JAMES FRENCH, MD Executive Medical Director, Hospitalist Program, Mercy Medical Center

TERRELL W. HERZIG, MSHI, CISSP Information Security Officer, University of Alabama at Birmingham (UAB) Health System

ADAM KEHLER, BCSc, CISSP, CHP HIT Privacy and Security Specialist, Quality Insights of Pennsylvania -Regional Extension Center (REC) for Pennsylvania East and West

PARTICIPANTS/PANELISTS (CONT'D):

MICKY TRIPATHI, PhD, MPP President and Chief Executive Officer, Massachusetts eHealth Collaborative (MAeHC)

Closing Remarks:

JOY PRITTS, JD U.S. Department of Health and Human Services Office of the National Coordinator for Health Information Technology Chief Privacy Officer

* * * * *

1 PROCEEDINGS 2 (8:30 a.m.) 3 4 MS. MARCHESINI: Good morning. I'm Kathryn 5 Marchesini with ONC's Office of the Chief Privacy 6 Officer. We've been anticipating this event for months. 7 Thank you for joining us. 8 We have a great turnout. We had over 1,500 9 registrants who will be participating by Web cast as 10 well as in-person and audio. We're here today to talk 11 about mobile devices, protecting and safeguarding health 12 information, but before we dive into the discussion, 13 there's a few housekeeping logistics that I just wanted 14 to go over. 15 Anyone who leaves the Humphrey Building 16 without an HHS badge will need to go back through 17 security to enter the event. Restrooms are located on 18 this floor to the left of the stage on the other side of 19 the elevator. You take another left. Also, please 20 silence all electronic devices. We ask that if you talk 21 on the phone during the event, please leave the event 22 area. The event's actually being recorded so your 23 conversation would be forever with us. ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 As you know, during the panel discussion, we 2 will welcome questions from the audience. If you would 3 like to submit a question and you're participating in the actual event room, please write your question on one 4 5 of the notecards that were provided. During today's event, please raise your hand. One of the floaters in 6 7 the room will collect your card. Will the individuals 8 helping with the public comment period please raise your 9 hand? There's an individual and another individual. If 10 you're joining us by Web cast or phone, please submit 11 your questions via privacyandsecurity@hhs.gov as well as 12 Twitter with the hashtag #mhealth. For all questions, 13 floaters will submit them to the moderator to introduce 14 into the discussion as time permits. If you have 15 general comments about today's event, please make them 16 online via the mobile device roundtable web site.

Now, to move to today's program. Ladies and Gentlemen, our opening speaker this morning is wellknown to us and others in the health care industry. In fact, he's the National Coordinator for Health IT across the United States. In a former life, he was Assistant

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	Commissioner for the Primary Care Information Project at
2	the New York City Department of Health and Mental
3	Hygiene, where he facilitated the adoption of
4	prevention-oriented HIT by over 1,500 providers in
5	underserved communities. He also led the
6	CDC-funded New York City Center of Excellence and Public
7	Health Informatics, as well as an AHRQ-funded project
8	focused on quality measurement at the point of care. I
9	don't want to take another of the event's time, so, to
10	kick things off today's discussion, please join me in
11	welcoming Dr. Farzad Mostashari. (Applause)
12	DR. MOSTASHARI: Hello, good morning.
13	AUDIENCE: Good morning.
14	DR. MOSTASHARI: How is everybody? How is
15	everybody online? Hello.
16	So, I tell this story of being at my health
17	clinic, getting my prescription refilled, and admitting
18	to the provider that if I try to take the pill as it
19	says on the bottle at night, I kind of forget. And I
20	take it about 60, 70 percent of the time. Bad patient.
21	But if I take it in the morning, I can fit it into my

1	routine better and I take it most of the time, but the
2	pill says take at night and I said to the pharmacist, is
3	it really that important if I take it at night or in the
4	morning, and the pharmacist said yes, take it at night.
5	And I said what's the half life? Bad patient. And the
6	pharmacist in his starched-white coat with his badge
7	with the computer screen between him and me goes into
8	his pharmacy information system, starts
9	clickety-clacking. I can't see what he's doing. But as
10	the seconds tick by, as he's trying to find the half-
11	life, I'm thinking it, he's thinking it, he's looking at
12	the mouse, and now the expectation is right, that the
13	information's going to be found and both of us know and
14	he says aw, heck, let me just Google it. (Laughter)
15	Right?
16	So, that's when what we have in our pocket is
17	ubiquitous, we always have it with us. When it's
18	connected, when that device taps into the world's
19	knowledge and when it's a platform where it's not just a
20	device that does one thing, where it's a platform on
21	which some of the same data, when you can have a near

1 infinite number of applications that could run on that 2 device, on that hardware, that's when disruptive 3 innovation in the best sense of the word is unleashed. Ubiquitous, connected platform. Ubiquitous, connected 4 5 platform. And the use of these is skyrocketing, as 6 everybody knows, and one of the interesting things about 7 this is that like many disruptive innovations, it starts in one side of the market, the lower cost side of the 8 9 market, and then it comes in and takes over the higher 10 cost, and in our case, it's consumer technology coming into institutional technology, medicine, one of the most 11 12 conservative bastions for adoption of technology with 13 good reason in many cases, because the stakes are 14 literally life and death.

So, whereas it used to be that it was investments in NASA and military and very sophisticated systems that eventually found their way in Teflon pans, right, that the consumer used, now the massive amount of research and development going on in the consumer technology field is moving innovation the other way. When I heard the military was using modified video game

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 controllers for their aerial, unmanned vehicles and the 2 same thing is happening medicine. Like it or not, 3 increasingly, mobile devices meant for a consumer technology marketplace are so usable, so pleasurable, so 4 5 ubiquitous, so connected platforms that they are being 6 increasingly used in health care, like it or not, like 7 it or not. And, so, we have to think not only about the 8 possibilities, but also the potential perils. 9 Ubiquitous means you always have it with you, 10 which means you can lose it at any time. Connected 11 means it's not just the data on the device that could be 12 compromised. It's the data in the cloud that could be 13 compromised. Platform means different applications have 14 to be able to access the same data and those, as we've 15 seen and heard recently, there are vulnerabilities that 16 can be introduced there, where an application that you 17 had no idea was accessing certain parts of your 18 information is now tapping into your contacts, your 19 locations. So, each of those characteristics creates 20 risks for privacy and security when these applications, 21 these devices are being used not just in the consumer

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 technology space, but moving now into health information
2 and the health care space.

3 And, so, we do what we do at the Office of 4 the National Coordinator. We get the smartest people in 5 an open process to help us be smarter, to help us learn, 6 and we have used different ways, we have many of you 7 here and we have, you heard, over 1,000 folks online and 8 on the phone and participating in the broader 9 conversation that we want to have today about how can we 10 make sure that we understand the issues of privacy and security of mobile devices, that we understand what the 11 12 current legal framework is for mobile devices that 13 access, store, and transmit health information, we 14 understand how the real world usage of these devices is 15 taking place by providers and other health care delivery 16 professionals to understand what their expectations and 17 attitudes are, to understand what they want, what are 18 the needs of the users, and understand what are the 19 existing and emerging best practices around safeguarding 20 health information on mobile devices. And we seek 21 comment.

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 I should also note that there's a connection 2 to the meaningful use of electronic health records in 3 the Stage Two Meaningful Use Proposed Rules. We're in the comment period now. We would love your comments on 4 5 this aspect, among others. CMS in their rule proposed 6 that particular attention be paid to encryption as part 7 of the security assessment and in our certification rule, we proposed that if data is kept on mobile devices 8 9 that the electronic health record software by default 10 encrypt that information. These are small pieces of a 11 much larger question about how can we ensure that we 12 have done everything we can to maintain the privacy and 13 security of health information wherever it sits? 14 So, in conclusion, the promise of the 15 technology of those ubiquitous, those connected 16 platforms and not just the risks, but also the 17 opportunities, we would like to hear from you about. It's possible that in the same disruption lie the seeds 18 19 of dramatic increases in ability to maintain privacy and 20 security.

One of the most difficult issues we face is

21

ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	around authentication around individuals, making sure
2	that it's the right person who's accessing that
3	information, and people have talked about two-factor
4	authentication, not just something you know, but
5	something you are, something you have, being a necessary
6	component of increasing privacy and security online.
7	Well, if we do all have something in our hands, that,
8	too, could serve as a second factor for authentication.
9	So, I'd like us to engage today on a really far-ranging
10	discussion of the current state of the possibilities and
11	I have every confidence that by having these open
12	dialogues with you, we're going to achieve the best
13	product possible for the American people. Thank you.
14	(Applause)
15	I'd like to introduce Joy Pritts, who is the
16	Chief Privacy Officer within Office of the National
17	Coordinator, but really has been the conscience for
18	privacy and security in everything that we do and has
19	been a tremendous advocate and really effective
20	coordinator in her own right of a lot of the discussions
21	around privacy and security we have both with the

1 private sector and also within our federal families. 2 Joy? 3 MS. PRITTS: Thank you, Farzad. When Farzad calls me "the conscience," what he really means is that 4 5 nag that is always there in all the conversations. 6 Welcome to you all. We're going to get 7 started now with our first panel. We thank Farzad, Dr. Mostashari, for his wonderful introduction to this 8 9 topic. It gives a good background for how these items 10 have moved from the consumer world and are rapidly 11 moving into the health care sector, and they're doing so 12 in a vacuum. There is a current federal role here and 13 our first panel is going to talk about it. So, please 14 come up. 15 Our first panel is going to set the federal 16 stage and discuss the current regulatory framework, 17 quidance, standards, and toolkits for providers. And we will be focusing today, as Dr. Mostashari mentioned, on 18 19 the privacy and security of mobile devices as they are 20 used in the health care sector by health care providers

21 for providing care.

ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 So, what we're going to do here is we're 2 going to talk, we're going to have each member of our 3 federal panel discuss a little bit about who they are and the agency that they are with and in particular 4 5 focusing on how that agency interacts with mobile 6 devices and health care information, and, in particular, 7 the privacy and security of that information because many of these agencies have a much broader mandate. So, 8 9 we have with us today members from -- and I will let 10 them all introduce themselves -- the FCC, the FDA, the 11 FTC, OCR/HHS, and NIST. Now, if that's not an alphabet 12 soup, I don't know what is. But we will start here with 13 Geraldine Matise, who is with FCC and, Geraldine, why 14 don't you talk to us a little bit about what the FCC 15 does in general and in specific what it does with 16 respect to mobile devices and how it might interplay with health care and security in specific. 17

MS. MATISE: Good morning. I'm Geraldine Matise with the FCC. I'm an attorney that works in the Office of Engineering and Technology at the FCC. Most of the people in my office are engineers. We have a few

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	attorneys and some economists, as well, but the Federal
2	Communications Commission, its charge under the
3	Communications Act of 1934 is to regulate interstate and
4	international communications by radio, television, wire,
5	satellite, and cable. It's a very broad charge. Our
6	jurisdiction extends to non-federal users of spectrum in
7	the 50 states, the District of Columbia, and the U.S.
8	possessions.
9	In terms of what's relevant for this workshop
10	today is we manage the radio frequency communication to
11	ensure that RF devices operate efficiently and without
12	interference and we do this in a number of ways. For
13	example, we decide which frequency bands are to be used
14	by different services. Some people refer to it as the
15	idea of good fences make good neighbors. We establish
16	technical rules for the operation of RF devices, we
17	authorize the RF equipment to make sure that it's
18	compliant with our rules, our technical rules, in
19	particular, and we authorize users of different
20	equipment because it can vary. We can authorize
21	individuals or we authorize network service providers,

1	as appropriate, depending on what the services are.
2	In the health area, we basically are engaged
3	in two primary ways. One is that we authorize a variety
4	of RF-based medical devices under Part 95 of our rules,
5	and these include implanted medical devices, such as
6	heart pacemakers or defibrillators, and we also
7	authorize patient monitoring devices, such as wireless
8	medical telemetry.
9	In terms of medical mobile devices, which
10	we're talking about here, what we basically do is we
11	authorize carriers whose networks are used by a wide
12	variety of these devices to access, store or transmit
13	information, including health information, and we also
14	established technical rules that are used by Wi-Fi or
15	other similar networks for very short transmissions.
16	These may or may not be integrated with the carrier's
17	network. Something like Wi-Fi, for example, if you have
18	a wireless router at home, that's something that you
19	just buy yourself and install. So, that's pretty much
20	the broad scope of what we do.

21 MS. PRITTS: So, Geraldine?

ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 MS. MATISE: Yes.

2 MS. PRITTS: Can I ask you a question on 3 this? Does the FCC require encryption or any other 4 security measures for any devices? 5 MS. MATISE: Generally, no. We don't require that, but we know that most device manufacturers in the 6 7 Wi-Fi area make a functionality available and carriers 8 will protect their networks in various ways. They do 9 this to improve the quality of service. 10 The Communications Act does have two very 11 broad prohibitions, which is not a requirement on the 12 carriers, per se, it's actually required on those of us 13 as users. People are not to intentionally interfere with a radio transmission; in other words, jamming. 14 15 It's basically illegal in this country to jam a radio 16 signal and we also, there are prohibitions on 17 intercepting radio communications and divulging the content, and that's a provision that's particular to 18 19 carriers.

20 Historically, again, the Communications Act 21 being as old as it is, the two broad areas that it was

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	set up to regulate were broadcast and common carriage.
2	Broadcasters do control the content on their networks,
3	carriers are supposed to provide service on a non-
4	discriminatory basis. So, they are not supposed to
5	discriminate, they're supposed to carry everything. But
6	people are not supposed to intercept that unless they
7	have a lawful instrument, such as a trap and trace or a
8	surveillance that law enforcement uses.
9	MS. PRITTS: Okay, so, to summarize with
10	respect to security, one aspect of security is data
11	integrity and one of the things that FCC does, the rules
12	do, is say that the information as it is sent to the
13	receiver may not be intercepted
14	MS. MATISE: That's right.
15	MS. PRITTS: And another issue is
16	availability of the information. So, the jamming is
17	also prohibited under FCC.
18	MS. MATISE: That's right.
19	MS. PRITTS: Okay. So, we will now turn to
20	the FDA, which has more of a health focus. As you can
21	see, the FCC has a very broad focus, but it does impact
	ANDERSON COURT REPORTING

1	on health and mobile devices and the FDA has more of a
2	health focus and we will have Mr. Bakul Patel.
3	MR. PATEL: Thank you, Joy. Good morning,
4	everybody. And a great introduction from FTC.
5	I'd like to start off with FDA's mission has
6	been to promote and protect public health. So, I'll
7	start from there and then I'll walk towards how we fit
8	in with the privacy and security of technology involving
9	health care or health of patients.
10	We start off with the mission of promoting
11	and protecting, and from there, we look at balancing the
12	benefits and risk of technology used in health care
13	settings, used for medical device purposes or medical
14	intentions. Again, I'm trying to stay away from a whole
15	lot of technical and term of arts that you use in the
16	FDA, but mostly it boils down to if it's used for
17	patients for curing, mitigating, treating disease,
18	that's where our jurisdiction lies, and I didn't say it
19	in the whole definition of a medical device, but that's
20	really the gist of it. And technologies can do this;
21	many forms of technologies can do this. We continually

look at risk to patients and, again, focusing from the 1 2 safety towards the patients and public health. 3 The other part of our mission is effectiveness of technology in actually treating, 4 5 curing, mitigating disease in patients. So, very much 6 health-focused, risk to patients is really what a lot of 7 our focus is. And if you can imagine the different types of risks that exist in medical devices and other 8 9 technologies, privacy and security is part of that. We 10 look at privacy and security from the risk to patient's 11 perspective and we ask questions for people regarding 12 does jamming cause risk to patients? Is it going to 13 hurt patients at the end of the day? 14 So, giving you a little bit of background of 15 what we have been working on is we are working on 16 developing policies that are smart to advance this 17 field. We totally understand and we are encouraged by 18 the innovation that's happening in the mobile area. We 19 are also excited about the fact that solutions that were 20 once in a very specific setting is now being changed 21 into technology agnostic or location agnostic solutions

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 that are going in the health field. We are taking all 2 of that into consideration. We are looking at non-3 traditional ways to tradeoff between benefits and risk, 4 which is a big factor for us to look at how we oversee 5 medical devices and what are the requirements we put on 6 manufacturers of those devices? That's really where we 7 focus on.

8 Last year, we released a draft guidance on 9 how and what types of mobile medical apps would be 10 overseen by FDA and one of the things we've done there 11 is we looked at a very small portion that becomes -- a 12 portion of those mobile apps that becomes -- either by 13 attaching sensors or other activators to a mobile 14 platform of a computer to turn it into a traditional 15 medical device. And we can talk a lot more about the 16 examples, but those are one of the things.

17 There are many things happening in this area 18 in mobile perspective where knowing where people are is 19 also helping people, patients, mitigate or avoid certain 20 risks or certain treatments or use certain treatments to 21 use mobile technology as part of that solution for care.

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	And, having said that, I will probably stop there with
2	examples because I could probably go on forever.
3	MS. PRITTS: Okay, so, to summarize the FDA
4	focuses, in our area, on the use of the mobile device as
5	a medical device and the privacy and security,
6	particularly the security of that is measured, taken
7	into account in weighing the cost and benefits to the
8	patient.
9	MR. PATEL: Correct.
10	MS. PRITTS: Okay, great.
11	So, if we can turn to our next panelist who
12	is Cora Tung Han, who is with the FTC, and, as you can
13	see, as I know you all know, FTC is much broader than
14	health-focused. So, Cora, could you give us a little
15	discussion about the FTC plays a role in this area?
16	MS. HAN: Sure. Thank you very much and good
17	morning.
18	So, the FTC's core enforcement statute is
19	Section 5 of the FTC Act, which prohibits unfair or
20	deceptive acts or practices. So, an act or practice is
21	deceptive if it involves a false or misleading claim or
	ANDERSON COURT REPORTING

1 one that omits a material fact, and an act or practice 2 is unfair, if it causes or is likely to cause 3 substantial harm to consumers, that is not reasonably avoidable and that is not outweighed by countervailing 4 5 benefits to consumers or to competition. 6 So, as Joy mentioned, this is a very broad mandate 7 and it applies regardless of what medium representation 8 might be made. So, whether or not something is said in 9 print, television, a desktop computer, or a mobile 10 device, these same rules of the road apply and the FTC 11 has taken enforcement action in the mobile area and I'll 12 just give you two very quick examples. One involved a 13 case against marketers of apps that claimed to treat 14 acne through a light emitted from the device if you held 15 it close to your face and we alleged that those claims 16 were unsubstantiated. In addition, we had also another 17 recent enforcement action against the developer of a 18 peer-to-peer files-sharing app that caused consumers to 19 unwittingly share sensitive and personal information on 20 their mobile device. So, we have a broad number of 21 actions and they apply regardless of the arena.

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

MS. PRITTS: So, but one of the key elements that helps bring a mobile device within the purview of the FTC is if they actually make representations about what they do.

5 MS. HAN: That's right, and those 6 representations can really be a number of different 7 ones. So, it can be in the privacy policy of an app 8 developer or of a platform. There's a little privacy 9 policy, a picture up there, but it can also be something 10 like a privacy setting. So, we have had enforcement 11 actions where we alleged that well, a privacy setting 12 that tells consumers that their information will be kept 13 private, if it doesn't actually do that, that's going to be a problem for us under Section 5. And, in addition, 14 15 representations can also be beyond the setting and the policy, other statements made on a Web site or on a 16 17 mobile device that people see.

MS. PRITTS: Okay, thank you very much.
I'm going to pause here just for a second.
As Kathryn mentioned, we will be taking questions both
from the in-person audience and the audience that is on

ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	the Internet. So, if you do have questions or comments,
2	please write them down and you can raise your hand, you
3	can get a card and you can pass them in here and we will
4	use them to facilitate our question and answer period.
5	Okay, given that, we're going to turn back to
6	a health focus here and I'd like to ask Susan McAndrew
7	of the Office for Civil Rights here at HHS to explain to
8	us a little bit about how the Office for Civil Rights
9	what your role is in this area.
10	MS. McANDREW: Thank you, Joy, and in honor
11	of the St. Patty's Day, I will take the mike with the
12	green wrapper. Very good. I appreciate that.
13	MS. PRITTS: Very good. See, I dressed for
14	the occasion. I just want to point that out.
15	MS. McANDREW: The Office for Civil Rights
16	does have jurisdiction under the Health Insurance
17	Portability and Accountability Act, lovingly called
18	HIPAA, to protect the privacy and security of health
19	information when it is held and maintained by particular
20	entities in the health industry, such as health care
21	providers, health plans, and their business associates.

So, we have a very particular focus and if Joy is the
 privacy "conscience" of the enterprise, then OCR can
 have the role of cop. So, we do have an enforcement
 role with respect to privacy protections.

5 With regards to mobile devices, it is clear 6 that these are a part of the electronic systems and 7 enterprise within a doctor's office or a health plan, 8 and, so, they do come within the ambit of the HIPAA 9 Security Rule and are subject to all of those 10 protections, including primarily it is important that 11 entities recognize that and include them as part of 12 their risk assessments as they go forward and that they 13 do take the same kinds of protections with regard to 14 those devices as they would to the main computer systems 15 within the enterprise so that if the device is receiving 16 and transmitting protected health information, that is 17 identifiable information about patients, then they need to consider whether or not that information in 18 19 transmission and if it's stored on the device needs to 20 be encrypted. This is not a hard and fast mandate, but 21 if it's reasonable to do so and they can reduce the risk

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

of the information, then they should do that or
 something similar to that.

3 There are other kinds of protections, 4 including making sure that the users of the system are authenticated and that they have controls about who can 5 6 access the system. As Farzad mentioned in his opening 7 remarks, these devices have many roles and many vulnerabilities, including it's not just the information 8 9 that is sent to and from these devices, but because of 10 the device, it may present access to other systems and 11 those kinds of controls need to be recognized and 12 protected against should the device fall into 13 unauthorized hands, and we know how often Blackberrys, 14 laptops, smartphones, and other things go missing, are 15 the object of theft, and when that happens, we cannot 16 necessarily cut down on that kind of theft, but it is 17 totally within the control of entities to make sure that 18 when that kind of theft or loss occurs that the 19 information that is on that device or to which that 20 device allows access is not also put into jeopardy so 21 that all that you have lost is the actual device itself.

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 These devices are subject to our breach 2 notification requirements so that if these devices are 3 lost or stolen and there is information that is stored on the device, the entity is required to notify 4 5 individuals whose information has been placed in 6 jeopardy about that event and they are also required to 7 notify the Secretary when these incidents occur, and many of our breach notifications are the result of these 8 9 kinds of mobile devices that are lost or stolen. So, it 10 is a frequent occurrence and there are easy ways to 11 protect the information, if not the device itself. 12 MS. PRITTS: Okay, thank you, Sue. 13 And we are now going to turn to our final panelist who is with NIST, which has a much broader 14 15 mandate than health and which unlike most of the other panelists, is not a regulator, but is an agency that 16 provides a lot of guidance. So, if I could please ask 17 18 Tim Grance to explain a little bit about what NIST does 19 and how it operates on this specific issue, please. 20 MR. GRANCE: Indeed. Well, thank you for 21 having me. I am from NIST. We are non-regulatory. We

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

have no foreign policy. We're the nice people in the
 U.S. Government.

3 MS. PRITTS: You're here to help us, right? 4 MR. GRANCE: We just write things down, put it up on the web site, and hopefully, people find it 5 interesting and valuable. So in general let me say NIST 6 is part of the Department of Commerce. We are involved 7 around the idea of measurement and standards, testing, 8 9 mostly around the idea of physical sciences, like 10 physics, chemistry, material science, and, of course, in 11 computer science. We do things like some of the 12 universal constants. What is a kilogram, what is a 13 second? And, believe me, I have actually carried a 14 kilogram, a reference kilogram and you can imagine me 15 going through security with a reference kilogram. 16 (Laughter) What do you have there? I have a kilogram. A what? (Laughter) Just a kilogram, sir. All right, 17 18 step aside here. True story. 19 So, again, we're probably known mostly in the 20 physics area, three Nobel Prizes. My mother thinks it's

21 still possible I might get one. It's not going to

ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 happen, but she still thinks so.

2 In the area of computer science, we have an 3 information technology lab, several divisions, networking, human interface in various areas. 4 The one 5 I'm in is the Computer Security Division and we write 6 publications on a variety of topics ranging from cryptography, access control, vulnerabilities, cloud 7 computing, the whole spectrum of security things, as 8 well as what I would call on the softer side is this is 9 10 how a training program might work, this is how risk 11 management works, this is how you would think about 12 doing risk analysis, two more esoteric things in the 13 works about this is how you would model a threat on your 14 particular space or environment, how you would think 15 about that, how we would try to deal with those things. 16 We operate a very busy and active web site. 17 It gets probably 100 million hits between something 18 called a National Vulnerability Database on the other 19 parts and there's nothing we put up there that's 20 inappropriate, but it still gets a lot of hits from all around the world, frankly, mostly from non-government 21

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	actors. And, so, the guidance we write generally gets
2	an orientation towards the federal government, but we
3	try to write it in a language and manner that's
4	accessible by anyone in the world who wishes to read it
5	and comment on it, and we actively encourage people. We
6	really do listen to the comments and we don't maybe
7	sound like it on the phone or anything, but we do listen
8	carefully and handle those comments with great care and
9	deliberation.
10	So, with that, I'll stop here.
11	MS. PRITTS: Okay. So, as you can see there
12	are a lot of different federal agencies that are
13	involved in the area where this all intersects and we
14	have a question that came in which is basically why
15	can't just one of you do this? Where is the
16	responsibility going to live? And, so, I'd like the
17	panelists to discuss a little bit about where the
18	potential overlap here is in regulation and how the
19	agencies have worked together a little bit in the past
20	to address some of these issues.
01	

Do you want to start over here?

21

ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

MR. PATEL: I know you were going to say the same thing.

MS. MATISE: I know. The FCC and the FDA collaborate quite a bit in the area of medical devices, in particular with Bakul. We had a joint workshop about two years ago, which basically dealt with the area of who does what for medical devices and our agencies entered into a memorandum of understanding so that we confer on a regular basis about any number of issues.

10 MS. PRITTS: Bakul?

11 MR. PATEL: I'd like to echo that and I'd 12 like to add also one more thing for FTC. We also at FDA 13 collaborate with FTC on areas that overlap in terms of 14 the deception part that Cora mentioned earlier. We have 15 a similar charge on our end which goes back to 16 misbranding of medical devices and misbranding equals 17 misleading and then somewhere it blurs the line between 18 deception and goes over to FTC, then there's no direct 19 harm in certain cases where we either choose to have FTC 20 take action or us, so, we collaborate on that area. 21 Similar to FCC, we also look at implantable medical

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 devices, what risks exists, and we work together on 2 those aspects of the technologies side, as well as the 3 consumer protection side and patient safety side. 4 MS. PRITTS: Cora? 5 MS. HAN: I'd like to echo what has been said. We do coordinate and talk and refer things back 6 7 and forth and we also try to reduce areas of confusion caused by overlapping jurisdictions. 8 9 So, for example, the FTC also has a health 10 breach rule that applies to breaches of sensitive health 11 information for mostly non-HIPAA-covered entities and 12 when we went through that process, we tried to work 13 together to ensure that it was clear as possible and 14 that there was as little overlap as we could manage. 15 MS. MATISE: I'd like to mention something. 16 It's maybe a little unusual, but in terms of our working 17 with NIST, we actually have had quite a working 18 relationship because they are involved in standards and 19 when we approve devices of all different types, we 20 require the manufacturers to have them tested and there 21 are, of course, a lot of devices today are not

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	manufactured in the U.S.; they're manufactured overseas,
2	and they're under trade agreements, what we call mutual
3	recognition agreements, that recognize test labs as
4	being qualified to test products in compliance with FCC
5	rules, and NIST has worked very well with us because
6	they can actually do the accreditation process for labs,
7	and we have worked very closely with them for probably
8	over 10 years now on that. So, it's a very valuable
9	role that they play to health agencies like us.
10	MS. PRITTS: Okay. I've got a next question
11	or, Sue, did you want to comment on that?
12	MS. McANDREW: Well, I also wanted just to
13	say that with regard to the partnerships that we have in
14	addition to the shared jurisdiction with the FTC and we
15	both did work very closely together to align the
16	regulations on breach, but we really do find the
17	resources in NIST to be a wonderful partner for us.
18	They have helped develop a number of tools that are
19	specific to the HIPAA Security Rule Guides for users and
20	they just have a new tool out, a computer-driven help
21	tool for risk assessment. So, they are a great resource

1	for us and we also have close relations with the FDA to
2	the extent any of the medical device integrity issues
3	also implicate a Security Rule problem.
4	MS. PRITTS: So, that's a great segue into
5	we see a couple of comments and questions on this, and
6	I'm going to direct this one primarily to Tim and to
7	Sue, which is: How do the mobile devices play into this
8	risk assessment? So, the Security Rule, Sue, requires
9	people who are covered by HIPAA have to conduct a
10	security risk assessment, right?
11	MS. McANDREW: That's right.
12	MS. PRITTS: And meaningful use now also
13	requires as one of its elements that people to receive
14	their incentive payments that they attest, that they've
15	actually done that, that they have done that element.
16	And, so, how does this work with mobile devices, do you
17	have to include this in a security risk assessment? Is
18	this part of a system? Tim?
19	MR. GRANCE: I can give you a set of sort of
20	general rules of thumb I think people should be
21	considering, but we would definitely encourage people to
	ANDERSON COURT REPORTING

1 take an enterprise-wide view or an agency-wide view of 2 their mobile devices. And, in fact, caused me to 3 actually look at my list here. And this is sort of draft, but it's (mike feedback). I must have said 4 5 something bad in a moment here. (Laughter) We're going 6 to suggest to people you should examine the issues around those devices. What are the threats to those 7 devices? What does it mean to use them? It's important 8 9 to think about context of use and, of course, the 10 mission benefit you're trying to confer; if you're a 11 government agency, if you're in the private sector, to 12 your business function, what are the issues there? We 13 think people should deploy these devices and have kind 14 of a generalized policy about what you want people to do 15 with them, personal use versus private use. Do you want 16 me to go on or --

MS. PRITTS: No, I have a specific question MS. PRITTS: No, I have a specific question on this. So, NIST does have mobile security guidance out or something of that nature, is that right? MR. GRANCE: We have several publications that contribute to that.

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 MS. PRITTS: Can you get the mike up closer 2 to your mouth, please? Thank you. 3 MR. GRANCE: We have several publications like that. But there's one in particular that's 4 directly to it, but it's a little dated because it's 5 6 2008. That's in the process of being updated. I'm 7 going to hazard a guess that no one should ever quote me on. I would say within the next month or two, that 8 should be out for draft comment. 9 10 MS. PRITTS: Okay. 11 Sue, this one's directed for you, I think, 12 which is people are looking for a little bit of an 13 explanation as to when the Privacy Rule does and doesn't apply. So, for example, if a doctor has a -- assuming 14 15 that they qualify under HIPAA for all the other things, but, generally, if a health care provider, a doctor has 16 17 information on a mobile device, that's subject to HIPAA, 18 right? 19 MS. McANDREW: To the extent the information 20 is identifiable information about a patient, then that 21 information is protected by HIPAA and if the doctor is

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	using the mobile device as part of his practice and
2	that's how the information got there, then, yes, that
3	information is protected by HIPAA and that device needs
4	to be considered for its security risks.
5	MS. PRITTS: Okay, so, now, as Dr. Mostashari
6	mentioned earlier, patients are also using these devices
7	a lot to store their own medication. Perhaps, they're
8	looking at their dietary requirements or they're storing
9	information about the exercise they get or even storing
10	information about what their glucose levels are. So, if
11	an individual has a mobile device, is that covered by
12	HIPAA?
13	MS. McANDREW: The devices that are for the
14	individual themselves, whether it's a mobile device or
15	their home computer, no, HIPAA does not tell the
16	individual what they can or cannot do or must do to
17	protect the information. I mean, clearly, the
18	individual needs to consider the same kinds of risks and
19	protections for the information that they have on their
•	
20	own machines, but HIPAA does not control how an

1 MS. PRITTS: Okay, but I'm going to turn to 2 Cora on that. Just so people get a fuller picture here, 3 if it is the individual's device and they do have medical information on it, that might implicate FTC 4 5 jurisdiction, is that right? 6 MS. HAN: That's right because our focus is 7 on consumer protection, so, we're very much concerned 8 about the representations that are made to consumers and

9 that they might see on their individual devices. And 10 the fact that those representations and those practices 11 involve sensitive health information is another factor 12 that we consider and would definitely make us examine 13 representations made in a very serious light.

MS. PRITTS: Okay, so, I have a follow-up question on that, which is: Does the FTC have a vehicle online for consumers to report apps that have privacy and security issues?

MS. HAN: We do. So, if you go to the FTC's Web site, we have a consumer complaint hotline and you, I believe, can call or submit complaints to us and we also have a large database where we track consumer

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

complaints called Consumer Sentinel, and that allows us
 to determine if a particular company has had a lot of
 complaints lodged against them and other sorts of
 trends.

5 MS. PRITTS: So, Sue, OCR similarly has a 6 number of ways that are posted on your Web site for 7 consumers to file complaints about what may be privacy 8 and security violations, including those involving 9 mobile applications, right?

10 MS. MCANDREW: Yes, we do have complaint 11 forms that are available through our web site and that 12 can be submitted, downloaded and e-mailed back to us, or 13 submitted through the mail.

MS. PRITTS: Okay, and I will ask the FCC and the FDA if you have similar consumer-facing parts of your web site where people can file complaints if they feel that it's necessary.

18 MR. PATEL: Absolutely. From the patient 19 safety part, we have for all medical devices or anything 20 related in the use of medical devices, patients, users, 21 clinicians, caregivers can submit anonymously complaints

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	or event notifications to us that we can follow-up later
2	on and come up with the same kind of analysis like FTC
3	does. Is it happening in particular area? Is it
4	happening in a particular situation? Is it happening in
5	a particular device? And then we follow-up with that.
6	So, we do have and it's all on FDA's web site. It's
7	called MedWatch, if that rings a bell. They should
8	probably look it up.
9	MS. PRITTS: Okay, thank you.
10	And, Geraldine?
11	MS. MATISE: The FCC does, as well.
12	MS. PRITTS: Okay. So, there is for those of
13	you who are interested in reading more about all of
14	these different federal efforts, there are links that
15	are posted on this event's web site, which will readily
16	get you to some of the proper places that we've talked
17	about today.
18	So, I think what we've managed to do here is
19	give you a little bit of an oversight of what at least
20	the framework is that we're going to be looking at in
21	looking at mobile devices. As we said when we started,
	ANDERSON COURT REPORTING

1	that this isn't happening in a vacuum. There's a lot of
2	regulatory protection and guidance already out there,
3	and what we're looking to do here is to make sure that
4	as people are adopting these, that they're aware of
5	these different requirements and that they have very
6	practical ways of addressing them.
7	So, I'd like to get you in join me in
8	thanking our panel. They've been wonderful in helping
9	us understand this very complicated and overlapping
10	jurisdictional issue. Thank you. (Applause)
11	We're going to have just a very short break
12	here while we reset the table for our next panel, which
13	will be Real World Usages of Mobile Devices by Providers
14	and Other Health Care Delivery Professionals.
15	(Recess)
16	MS. PRITTS: (Inaudible) for our panel here.
17	We're getting ready to seat our next panel, so, we'd
18	like it quiet in the audience, please. Hello, quiet.
19	Thank you.
20	All right, our next panel, which is going to
21	focus on Real World Usages of Mobile Devices is going to
	ANDERSON COURT REPORTING 706 Duke Street, Suite 100

706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

be led by Dr. Jon White from the Agency of Health Care
 Research and Quality, fondly known by people inside the
 beltway as AHRQ.

4 Dr. White directs a health information 5 technology portfolio at AHRQ. He sets a programmatic 6 direction of AHRQ's health IT projects. We do a lot of 7 work with Jon White and his team, and I tell you they are just a pleasure to work with. They have fueled and 8 9 informed a tremendous expansion of health IT to improve 10 health care quality, which is what it's really all 11 about. So, I would like you to join us in welcoming Jon 12 and the members of the second panel to start this 13 discussion of how these devices are really used in real 14 life. Thank you. 15 Welcome, Jon.

DR. WHITE: Well, thank you so much. I appreciate you all being here today. Welcome. I want to welcome all of our friends out on the Internet, including potentially my family. Hi. Who are going to be watching us today and listening to a really engaging conversation. So, we've got a great panel lined up for

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 you. I'm not going stand long in their way.

2 Today, we're talking about the intersection 3 of policy and technology in great health care, and there are a lot of those different intersections, but in 4 5 particular, we're talking about mobile devices. So, 6 yeah, we talk about the devices, we talk about the 7 policy, but what you're going to hear, I think, from these folks today are really that we're talking about 8 9 putting information in the hands of people who need it 10 to be able to deliver better health care. So, it's not 11 just the device and it's not just the information, but 12 really it's the power to transform the care that you 13 deliver and to be able to do the best job that you can 14 when you're trying to provide that care. So, like I 15 said, we've got a great group of panelists. I'm going 16 to let each one of them introduce themselves 17 individually. They're going to have a chance to talk about where they're from and what they do and really the 18 19 most important thing that they've noticed in terms of 20 mobile devices and the relationship to the care they 21 deliver. And then we'll get into some great discussion.

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 So, please.

2 DR. DeLaROSA: Good morning. My name is 3 Jacob DeLaRosa. I am from Pocatello, Idaho, and Idaho does exist. (Laughter) I'm a practicing heart surgeon 4 and clinical work, 90 percent fully clinical. It's a 5 6 passion in myself in regards to mobile devices. I came 7 up with an app about three years ago in regards of protecting people from texting and driving because 8 9 there's just been so many accidents that we had seen. 10 So, it's sort of a passion in regards to mobile devices. But, as well, the mobile device in regards to 11 12 medicine and really in clinical practice is essential 13 and I was sharing this a little earlier, how imperative 14 it is when talking to patients and actually showing them 15 the disease process, showing them the complications, 16 showing them what's going on so they could see it one-17 on-one versus just an explanation. And it's still very 18 shocking to me that I'm fourth down the line before I 19 see a patient for open-heart surgery, for cancer 20 surgery, et cetera, and the patient has never seen what 21 they're being treated for because it was never shared

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	with them. So, for me, it's really important about the
2	awareness of the technology we do have to share with
3	physicians and then they learn what's available.
4	MS. GALLAGHER: Good morning, everyone. My
5	name is Lisa Gallagher, I'm Senior Director of Privacy
6	and Security at HIMSS, the Health Information Management
7	System Society. HIMSS is a cause-based, not-for-profit
8	organization that's focused on the optimal use of IT for
9	the betterment of health care. We have 44,000
10	individual members, 570 corporate members, and 170 not-
11	for-profit organizations that participate with us and
12	share our mission.
13	The reason that I'm here today is because
14	HIMSS has a number of initiatives that are related to
15	the use of mobile devices and health care. First, we
16	have an initiative called mHIMSS, which is focused on
17	building on HIMSS' already existing strengths and
18	convening stakeholders, sharing knowledge, providing
19	education, public policy, research, and content, and
20	here, our initiative is focused entirely on mobile
21	technologies that are used in the workflow and for data

exchange, and under the mHIMMS's initiative, under the
 direction of my colleague in the back here, Edna Boone,
 we have two interesting efforts that I wanted to
 highlight and I'll be sharing some data from these as we
 go throughout the discussion.

6 First of all, this past fall, we executed our 7 first annual mHIMSS Mobile Technology Survey, and that was related to the use of mobile and wireless in health 8 9 care organizations, and they're used for access to 10 patient data, how folks are attempting to secure data at 11 this point, and the benefits and barriers of the use of 12 those technologies. So, I'll have some data to provide 13 as we go through the discussion. We also have an upcoming conference, the mHealth Summit in December in 14 15 Washington, D.C., and then in my area, in the privacy 16 and security area, we had convened a mobile security 17 workgroup this year and they recently published a mobile 18 security toolkit and that has various reference 19 resources, best practices, case studies, et cetera, and 20 as we go throughout the discussion, I'll also talk about 21 some of those work products, some examples that we have

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 that are useful for today's discussion.

2 And I think to Jon's point as to what are 3 some important points that I want to stress at this point are that we do see from our survey and our data 4 5 that we collect that one of the most prevalent issues 6 that we're seeing, especially with regard to privacy and 7 security, is that the technologies are being deployed in health care organizations without the benefit of having 8 9 updated policies and procedures in place for managing 10 them, and, so, that's some of the information that we 11 have in the toolkit and then I will talk a little bit 12 more about some of the concerns and benefits, but, of 13 course, privacy and security does come to the top. 14 DR. WHITE: Thank you very much. 15 DR. HEILMAN: Good morning. My name is Steve 16 I'm the chief medical information officer for Heilman. 17 Norton Health Care. I am an emergency medicine physician by training. I've been doing the CMIO work 18 19 for the last three years and I'm sort of learning on the 20 fly as I go, but part of my job is to help oversee our 21 organization.

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 Norton Health Care is located in Louisville, 2 Kentucky, where an integrated delivery network of five 3 hospitals that are not-for-profit, including a freestanding pediatric facility. We have 15 outpatient 4 5 centers, we employ about 12,000 employees, we have 2,000 6 physicians on our medical staff, 500 employee physicians on our staff. We have about \$1.5 billion yearly in 7 revenue. We have about 1.5 million patient encounters 8 9 annually, 60,000 admissions, and we're really trying to 10 get our handle on mobile technology and what we could 11 bring to the table.

12 One of the things, I guess the key salient 13 point I'm trying to make, in my job is that mobile technology is developing very rapidly and we're seeing 14 15 mobile devices show up more and more frequently, multiple types are coming to the table, and we ourselves 16 17 have sort of a bring your own device policy that we're trying to develop, as well, as to giving our executives 18 19 and administrators our own devices that we know we can 20 control. The problem is, as mobile technology expands 21 so rapidly, back to Lisa's point, we're still trying to

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

21

1	figure out how can we govern that and we're finding out
2	that if you don't have policies in place to help govern
3	that, it becomes sort of the wild, wild west out there
4	in health care. I think benefit and communication is
5	absolutely paramount to helping take care of patients
6	and communication between providers, communication
7	between patients is excellent. It helps decrease length
8	of stay, it helps gets feedback, it helps improve care.
9	The problem is we're finding that clinicians
10	are taking advantage of unencrypted video conferencing
11	on the Internet to kind of do patient handoffs; we're
12	finding that nurses are texting physicians with
13	patient's personal health information. So, even though
14	we're trying to figure out what polices to put in place
15	and how to govern them while all this is going on, you
16	have to get in front of that because if you don't have
17	those policies in place and educate everyone about what
18	the risks are of that, it will just go out and not be
19	controlled. So, that's really what we're trying to get
20	ahead of right now.

MS. SHAFFER: Good morning. My name is Meri

ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	Shaffer, I'm an RN, and I'm currently working as a
2	systems analyst for Montefiore Home Care. I have over
3	30 years of homecare experience, and for the past 15
4	years, have implemented and worked with various
5	technologies that allow for better patient care and
6	clinician efficiency in the homecare arena.
7	Montefiore Home Care is celebrating 65 years
8	of service to the communities of the Bronx and
9	Westchester Counties in New York. We are part of
10	Montefiore Health System and are the first hospital-
11	based homecare agency in the United States. We are
12	large, with a census of roughly 2,200 patients
13	combined from our certified agency and long-term
14	Lombardi Program.
15	Homecare in both urban and rural settings
16	each have their own challenges, but, at the same time,
17	we still have a lot in common. Lengthy documentations
18	requirements for compliance and billing, patients that
19	are coming home sicker with multiple chronic
20	illnesses, gas prices, and reduced reimbursement are
21	issues all homecare agencies face. The use of mobile

technology to assist the clinician in rendering
 quality care to the patient is now becoming the norm.
 Safeguarding that health information becomes an
 important matter.

5 Currently, many agencies, including Montefiore, go ahead and furnish devices to clinicians 6 7 for use for documentation purposes. One reason for 8 this is we can control the security. Currently, we 9 use laptops with touchscreens. These laptops not only 10 have encrypted software from our vendor, but we are 11 also encrypting the disk, as well. Other agencies I 12 know of also use LoJack Software in case the laptop is stolen or lost so it can be recovered. Licensing 13 14 surveyors recently are now asking for policies about 15 security and agencies are really scrambling to comply 16 and they need guidance.

17 There is also concern about the use of 18 public Wi-Fi and cellular technology. Texting is 19 really convenient, but is it secure? No. Some of the 20 agencies have policy about texting and, but, again, 21 these are really difficult to enforce. Some of them

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

just use patient numbers or initials, but it doesn't
 seem to be a workable system.

Also, there's a concern about clinicians using public Wi-Fi. Is that really secure? There are some colleagues that I have in the rural areas where difficulties of available high-speed Internet and cellular coverage is an issue, and, believe it or not, even in New York, cellular coverage can be very erratic.

10 And none of this is without cost. Homecare 11 is, unfortunately, not included in the American 12 Recovery and Reinvestment Act Incentive Program. So, 13 we have to pay for all this ourselves. Despite the 14 challenges of utilizing mobile devices though, the 15 main payoff for clinicians in the field is having 16 accurate information when seeing patients. The 17 ability to gauge improvement or decline by comparing 18 the patient status from visit to visit allows for 19 clinicians to note whether treatment plans are 20 working, communicate aspects of the patient's 21 condition effectively to the physician, and enable the

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 physician to make better care decisions for the 2 patients.

3 I want to thank the ONC for inviting me to 4 give input on this subject that is very relevant to 5 homecare. Thank you.

DR. TASHJIAN: Good morning. Hi, I'm Chris 6 7 Tashjian. I bring a little different perspective. I practice in a town of 1,500. I'm kind of the classic 8 9 family doc. I see patients in the hospital, I work the 10 emergency room, I see patients in the outpatient setting, and I also do nursing home, and, believe it or 11 12 not, even occasionally see the county jail patients, as 13 well. So, it's kind of a little bit of everything and 14 my passion, of course, is health care and medicine and 15 caring for my patients, but a second passion is 16 technology and mixing these passions and finding out how 17 in using technology to really improve the care of my 18 patients and demonstrably show that we can provide 19 world-class care in a setting of 1,500, in a town of 20 1,500.

21

I think technology is a great equalizer. I

ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 think the next step in that is going to be the mobile 2 technology, but if we look back for a minute, I mean, 3 I've been using a smartphone for 10 years and it's really interesting because 10 years ago, we were using 4 it just as access to medical information, and even then, 5 6 if I looked something up in a book my patient said, 7 what's the matter he doesn't know anything? But if I pull out my palm and look it up on an Epocrates, they 8 9 say man, this guy's really smart. Look at how he can 10 use the technology. (Laughter) So, again, technology, I think, has been here, but it is just now mushrooming 11 12 and even in the rural areas, we welcome it.

13 I look forward to it for doing a couple of different things. One is interactions with specialists, 14 15 as you can expect, when you're in the rural setting, you 16 don't have access to specialty care, and, so, technology 17 can be the great equalizer in that aspect, but I also 18 look at it in how can we better serve our patients? 19 And, for example, and I've asked numerous patients this, 20 if I could text you your results, if I could give you 21 information via your mobile phone, would that be helpful

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	to you? Would you rather receive it in e-mail, would
2	you rather receive it in snail mail, and 100 percent of
3	the time, and a few things in medicine that are 100
4	percent, but 100 percent of the time, they say if you
5	could text it to me, that would be great. If I would
6	have to do less, could just get that data as soon as
7	it's available, and to be honest with you, they're
8	expecting it and I think we need to give it to them.
9	Finally, I'm going to close with one thing
10	that I think is really interesting, is I share a picture
11	with people that is of my 90-year-old mother and my 89-
12	year-old mother-in-law and on Christmas Day, they are
13	sitting at the kitchen table with their iPads and
14	they're beating on their iPads, and, so, I don't think
15	this is a generational thing. I think the vendors and
16	the people like Apple have made the interface so easy
17	that virtually anybody can use it. I think it's now
18	incumbent on us in health care and in the health care
19	vendors to find a way to get it to them because I think
20	it's possible and I think we have an obligation to our
21	patients to do that. Thanks.

1 DR. WHITE: All right, what a great 2 introduction. So, I hope it is clear to you these are 3 not nerds with stethoscopes. (Laughter) These are people on the frontline of health care delivering care 4 5 and working with their colleagues to deliver care using 6 powerful information tools, and that's what we want to 7 hear and that's what we want to do, and they also have an appreciation for the issues that go along with that. 8 9 We're going to launch into a discussion of a 10 couple of different questions. We're going to take 11 questions from the audience, from Twitter, and from the 12 Internet. I do want to take a brief moment to thank my 13 colleagues from the Office of the National Coordinator, Joy, and her colleagues. Not only are you all charming 14 15 to work with, but really talented and smart and you set 16 up a great panel. So, I appreciate all the effort that's gone into it today. So, thank you very much. 17 18 So, let's start into it. You guys mentioned 19 a couple of these, but I really want you to talk a 20 little bit about the kinds of things that health care 21 providers do with these mobile devices. We're drawn to

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 them and there are certain things that we do and there's 2 the things that really make a difference, right, and say 3 wow, I couldn't do that before, I want to hear about this. I also want you to talk about the things that you 4 want to be able to do with it, and it's not quite there 5 6 yet, but you know that if it could just do this or that, 7 that really you know that it's going to make a big difference for you. So, what are you all seeing? 8 9 DR. DeLaROSA: What I use it for, I use it 10 primarily for CAT Scans, radiology-type of procedures 11 that I can get and get them pretty quickly. The delay 12 is the download, especially on these multi-sliced CT 13 scans. We also are able to see in live is a coronary angiography. So, it's sort of like your office has 14 15 become mobile. So, now you don't have to be sitting in 16 the hospital and be getting a phone call from 17 cardiologists, a radiologist, a referring doctor, and he says can you look at a patient's films? Yes, and I'm 18 19 able to now look at the films using a mobile device and now being able to give my opinion right away. And this 20 21 goes back to the rural physician, too, that calls and

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

needs help with something. You can now look at these
 films and make a decision right away versus trying to
 drive to the hospital or trying to get someplace through
 traffic to give an answer. So, that's what I use it for
 mostly.

What I would like to see, I would like to see 6 7 things faster, of course, and if being able to do sort of like a face time with the physician you're talking to 8 9 because one of the things that I think we sort of lose 10 is that personal touch of you can be talking with 11 somebody or you can go without seeing them, seeing 12 facial expressions and seeing and understanding back and 13 forth.

DR. WHITE: Radiology is always in the basement, right? So, you no longer have to run from seven down to the basement and then back up again to see your film. So, great point.

DR. TASHJIAN: Yes, I was going to say a perfect example, and Dr. DeLaRosa kind of touched on it, but it's interesting, a year ago, when I'm in the emergency room and somebody comes in with a complex

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 fracture, and I'll be honest, I'm not an orthopedic 2 surgeon, but I need one, but I need to know how to 3 explain it to them. At least at that time, willingly or unknowingly, we would text them a picture of that x-ray 4 5 and they would be much happier than anything I could do, 6 than anything I could explain over the phone and they 7 could tell me right then and there admit the patient, don't admit the patient, splint the patient, I'll be in 8 9 right away to take care of it. Any of those things. 10 We've had to stop doing that because the 11 HIPAA people at the hospital said you can't do that. 12 We're working on work-arounds and one of my goals is to 13 not have to do work-arounds, but design it right from the ground up. One of the work-arounds that we're at 14 15 least going to look at is what if we just take a picture 16 of the fracture, but no patient identifiable data? So, 17 we can do that, but my goal is to really look at it from 18 the ground up and ask the vendors make something that we 19 can use.

20 DR. WHITE: So, that's a great policy issue, 21 right? So, and you call them the "HIPAA people," and I

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	know, right, that's what we all call them. They do have
2	responsibilities and they
3	DR. TASHJIAN: I'm not saying it's wrong.
4	DR. WHITE: Love the HIPAA people.
5	DR. TASHJIAN: And, again, as a patient
6	myself, I don't want my data out there for anybody to
7	see. So, I understand where they're coming from.
8	DR. WHITE: Yes.
9	DR. TASHJIAN: But I also understand
10	technology can do a lot of things and technology, at
11	least to me, it's coming under vendors to give us
12	technology that satisfies the patient privacy and that I
13	want both, I want privacy and I want to be able to use
14	it.
15	DR. HEILMAN: So, we have academic
16	affiliations with the University of Louisville and the
17	University of Kentucky, and one of the most prominent
18	apps that was first taken advantage of and we've been
19	doing it for probably 5 or 6 years is just the online
20	education, much like Epocrates or a third-party resource
21	just for drug dosing, drug interaction, best evidence-

1 based practice medicine. Generally, on those 2 applications, we get between 4,000 and 5,000 hits a 3 month. So, those are very active and very prominently 4 used by our medical staff. 5 Additionally, technology is getting to expand 6 greater, and, so, we're starting to see the ability to 7 transmit fetal monitoring to smartphones and smart 8 devices. So, our OBs are extremely happy with us right 9 now because when they're on call, their nurse has a 10 question, they can actually just pull out their phone, go look at a fetal tracing, and say no, that's normal or 11 12 no, this is of concern. 13 Technology is expanding. We're now even 14 monitoring in ICUs those monitor readouts and rhythm 15 strips can be put on a smartphone for patients to see. 16 That's a huge advance. So, if you're monitoring 17 multiple ICUs or you're on call, physicians find great value in being able to get to that data and that 18 19 information really quickly.

20 Those are probably the biggest things we're
21 starting to see. I think it'll be great as telemedicine

ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	evolves, to what Jacob talked about, getting that
2	face-to-face interaction to be able to talk with your
3	patients and see your patients in a secure environment
4	and actually provide care that way. I think it'll
5	really take medicine to the next level.
6	MS. SHAFFER: In the homecare arena, I think
7	that since we see patients in the home, one of our great
8	challenges is medication reconciliation and the fact
9	that we have very disparate systems out there. So, to
10	have an accurate medication list that we can confer with
11	the physician on so that we both are on the same page,
12	we have a really greater chance of keeping people at
13	home and not having them readmitted to the hospital.
14	So, I think disparate systems is really a big challenge.
15	MS. GALLAGHER: So, just to give you some
16	sampling of the data that we collected on the work-
17	related tasks that providers are using mobile devices
18	for, the top use of a mobile device is to look up non-
19	PHI-related health information. So, information that
20	guides the provider in providing care. But the next one
21	is 75 percent of the respondents used the mobile device

1 to view patient information. Twenty-eight percent 2 actually report storing that information on that device, 3 but seventy-five percent use it to view. They use it for education and training purposes, clinician 4 notifications, tracking of work lists, so, their tasks 5 6 during the day, and 33 percent report at this point in 7 time using it to provide secure communications to their 8 patients. There are some other smaller usages, 9 collecting data at the bedside, analysis of patient 10 data. So, viewing, but then doing some analysis-related 11 task, et cetera.

12 With regard to some of the challenges and 13 concern areas, in my introduction, I talked about the fact that privacy and security is a top concern, but, 14 15 actually, looking at the data here, the top concern 16 among all respondents was actually the speed of 17 accessing the data. So, now that they found ways that 18 they can use these tools to review clinical information 19 or images, the actual download speed is a concern, as 20 well as screen resolution and fidelity. So, as we start 21 to use these tools in the clinical setting as part of

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 the clinical workflow, there will be some technical 2 challenges to address, as well. DR. WHITE: Since a lot you mentioned the 3 4 speed, I'll just briefly mention that there's the 5 pushing of actual information to the device. 6 Increasingly with the cloud coming to be and we're seeing the push of not whatever it is, the file, but the 7 image of processing that's being done at a different 8 9 place. So, there's hope for that, but I totally agree 10 with you all. You all come from a wide variety of different 11 12 types of practices and where those practices are 13 located. Anything special about the environment in 14 which you practice or your colleagues practice that 15 speaks to you about how these devices are being used or 16 they want to be used or how they make a difference? 17 DR. HEILMAN: So, we have about a 50-50 mix 18 between specialists and primary care and we're just in 19 the deployment phase of our new electronic medical 20 record, but one of the things that comes with that is an 21 application for the physicians to use that's a native

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 app that sits on their smartphones essentially, and that 2 one of the benefits we're realizing quickly is that the 3 primary care doctors who cover for other physicians when 4 they're on are able to access those medical records, and that's predominately in a read-only format, so, there's 5 6 some challenges in what you can do with it, but if someone does call and it's a complaint that you can go 7 8 back and access the record, look at the medication list, 9 look at previous histories, see if they've had these 10 problems in the past, it does enable them to really 11 provide much better care than just kind of going on the 12 fly and trying to resolve the issue by just the data 13 that the patient is giving them. 14 So, I think that access has really leveraged 15 them to be more productive. Additionally, it does allow 16 them to do prescriptions through their phone, as well, 17 and I think they're finding a lot of value in being able 18 to just file a prescription quickly through the 19 smartphone application, as well.

20 DR. TASHJIAN: I will echo what Dr. Heilman 21 said, but what we're finding is that, again, access to

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	information and data is crucial, is that being able to
2	look up the record from virtually anywhere is great.
3	We're seeing though a lot less ability to actually do
4	something or act on the information. So, either writing
5	a prescription, sending an order to the hospital, or
6	doing something like that. So, we're actively working
7	with at least a couple of vendors to say we need to do
8	this, this is really important.
9	DR. WHITE: So, not just getting the
10	information, but being able to act on it
11	DR. TASHJIAN: Exactly.
12	DR. WHITE: And do what clinicians do, right?
13	Okay, cool.
14	Steve mentioned this. If anybody wants to
15	comment on it, bring your own device versus enterprise-
16	owned. There's issues on both sides. Any thoughts on
17	how you address that or how you go about making those
18	decisions?
19	MS. SHAFFER: Well, I know for us, it was
20	really a security issue across the board. And most of
21	our clinicians are nurses, physical therapists,
	ANDERSON COURT REPORTING 706 Duke Street, Suite 100

occupational therapists, they're not apt to bring their
 own device and buy into that. I think they're expecting
 to get a device. And, plus, for us for supporting it
 and for security issues, it's much cleaner. Much
 cleaner.

6 MS. GALLAGHER: So, in my area of privacy and 7 security at HIMSS, the number one question I get on the use of mobile devices is: If we decide to allow 8 9 individuals to use their own device, how do we manage that? So, in our toolkit, we've provided a number of 10 11 reference resources on how to manage that and up to and 12 including once you've decided to allow the employees to 13 bring their own device and connect it to the network, 14 what would a sample user agreement be so that the end-15 user is educated about what are the implications and 16 what are their responsibilities when it comes to the use 17 of those devices to access the network and to access 18 patient data?

So, I do have a sample mobile device user agreement in the toolkit and those samples, policies, and user agreements are provided by our members who have

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

MOBILE-2012/03/16

1 actually implemented them and are in their organizations 2 and find that they're working well for them. So, I 3 think this is a trend. The advantages, of course, are the ability for the end-user to use his own device for 4 multiple purposes, both business and personal, but also 5 6 organizations are finding that it saves them a 7 tremendous amount in the cost because they don't pay for the device and they don't always pay for the access. 8 9 So, it reduces expenses, as well. So, it is realistic, 10 it is being done by lots of organizations, and, so, 11 we've got to really get a handle on the policies and the 12 training, education, and agreements that the end-user or 13 the employee needs to understand. 14 DR. HEILMAN: If you took a snapshot five 15 years ago and you called our help desk, we only 16 supported Blackberrys and PCs, and if you asked a 17 question about an iPhone or a Mac, we told you we don't 18 do that. And we were able to stick to that line for a 19 good year until the outrage got much too loud for us to 20 be able to manage. (Laughter) And, so, we had to kind 21 of open it up. And I think it's the right choice.

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 The problem, as Lisa mentioned, is that when 2 you do this mixture and you're saying it's great to 3 bring in your own device because we can never afford to provide 12,000 employees each with their own mobile 4 5 device and pay for those contracts. They need to 6 understand what risks are going on. If you're going to 7 use our network, then if you have multiple incorrect log-ins, we're going to wipe your phone. If you're 8 9 going to do this, we're going to have the ability to 10 locate where the phone is if it gets lost or stolen. 11 Those are things that some people are comfortable with 12 and understand. It's the benefit of being on the 13 network, but other people have taken real issue with 14 that. And, so, it's a mixture. We're finding some 15 physicians are willing to do that because they feel it 16 eases their job, but others are saying I feel that's too 17 much like big brother at this point and I'm not ready to 18 commit to that.

19 DR. TASHJIAN: I take a little different 20 viewpoint, and, again, I told you technology is, again, 21 one of my passions. I find that I don't want any of

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 that information on my phone. I want to be able to 2 access it, I want to be able to see it, but I don't want 3 anything to do with storing it, and I think that that's out there. We specifically chose our EHR vendor because 4 5 they could give it to us in this ASP format, which is essentially saying that our data is in the cloud or it's 6 in Kansas City, even though I practice in Wisconsin, and 7 that's been a lifesaver for us because we don't worry 8 9 about security, we give that to the technology people 10 and say that's your problem. My problem is taking care 11 of the patient. So, anything we do mobile-y, my request 12 to the vendors is I don't want it on my phone. A, I don't want to store it, and, B, I don't want to be 13 14 responsible for it.

DR. WHITE: I think most of us may have, not that I've done this, dropped their phone in the toilet at one point and lost something that was important on it. So, you can appreciate the value of doing that. So, I'm going to ask you one more question and we've got some great questions from the audience and from online. So, you were talking about the power to do

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 things that you couldn't do before when you didn't have 2 this information with you, which is great. With great 3 power comes great responsibility and we're talking about privacy and security here today. So, are you or your 4 5 colleagues aware or do you talk about the privacy and 6 security issues because you just started to touch on 7 this. That's your problem. To what degree are these things discussed by us as health care providers or is it 8 9 just I just need the information I need? 10 DR. DeLaROSA: This has gone up to already 11 the Ethics Committees because it does become ethical 12 when you're carrying people's data around, patients' 13 information, and what do you do? And the way that we've 14 been able to sort of solve it in a low-cost manner is 15 you have to commit to it, you have to sign a contract, 16 and you have to have your phone guarded, meaning you have to have a passcode on it. A lot of phones don't 17 18 have passcodes, but if you're going to commit to 19 carrying patients' information on it, then you have to 20 have a passcode. So, when it does get lost, if you do 21 leave it on the airplane, if you do leave it someplace,

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	it cannot get into, and that's the way we've been kind
2	of been able to deal with it at a lower expense level.
3	MS. SHAFFER: In homecare, I think it's a
4	topic that comes up all the time. It's covered heavily
5	during orientation and on a yearly basis. All
6	clinicians, I know, at our agency are quizzed on HIPAA
7	rules and regulations. So, it's definitely in the
8	forefront.
9	DR. TASHJIAN: Yes, I would just echo that
10	even in our small town, it was a week ago that every
11	single person, including our medical assistants and
12	everyone, and, again, we basically have to undergo
13	training on HIPAA, which, again, we think is a good
14	thing. I will say this though, I think paper is much
15	more likely to be lost than electronic data and I think
16	we can't lose sight of that. I think that we kind of
17	sometimes forget when we leave a briefcase here or we
18	leave something there that paper is probably less
19	encrypted, more easily lost than the electronic data.
20	So, we think of this as an improvement.
21	DR. WHITE: Very good. Okay.

1 Okay, yes?

20

2 MS. GALLAGHER: Okay, so, I know that we're 3 talking about this from the provider or physician perspective, but there are some very serious security 4 5 concerns for the IT folks, the network folks in that 6 when you allow these kinds of devices on your network 7 wirelessly, you're dealing with almost an uncontrolled number of remote accesses and I know that with the HIPAA 8 9 audits, remote access is an area that HHS is asking 10 everyone to focus on and they have actually issued a 11 quidance document which I think is on the OCR site on 12 the security risks of remote access. So, I think it's a 13 security risk management issue for the IT folks. 14 I also want to mention that we are seeing a 15 trend towards wireless medical devices, monitoring 16 devices, et cetera, and those are also connected onto 17 the network. Those are most often managed by the 18 clinical engineering biotechnology side of the house and 19 at HIMSS, we have an initiative, a clinical engineering

21 the clinical engineers to talk to each other about the

ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

IT community where we're trying to get the IT folks and

21

devices that are on the network. Both sides need to
 understand that it is a remote access, but you also have
 it connected to a live patient.

4 It is a security risk management issue from a 5 number of perspectives: integrity, availability, et 6 cetera, but also you have the IT folks doing security 7 network monitoring, perhaps vulnerability or penetration 8 testing and not realizing where the medical devices are 9 on the network and connected to live patients. So, 10 that's an area where we think there needs to be a little 11 bit of work and communication. But, that having been 12 said, there are lots of tools out there for you to use, 13 guidance from NIST, guidance from HHS, information in 14 our toolkit, et cetera.

DR. WHITE: Great. Okay, so, let's start with some questions from the folks out here. We'll start with Steve, a question for you, but then we'll open it up to other folks, but give you the first chance to answer. Can you discuss the role of mobile devices and transitions between care settings?

DR. HEILMAN: Well, from an inpatient

ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	perspective, I think it does take a good role because
2	then nurses can do handoffs, essentially send
3	information in a secure form so that they're more
4	informed. We're used to the days where I'm going to fax
5	the report to you and if we can get away from faxing,
6	that's great because we can keep things not on paper and
7	not lose things that are moving around. So, I think
8	there's a huge thing and huge capability with that.
9	We don't do home health, but I do see a large
10	value in transitioning patients from an inpatient or
11	acute care setting to a long-term care. I think that's
12	something we're going to have to work on in the future,
13	but I do think there's great value in being able to
14	leverage mobile technology to get that accomplished and
15	I think that probably dives right into you, yes.
16	MS. SHAFFER: Absolutely. I mean, I think
17	that link between the hospital and the homecare or even
18	the nursing home for long-term setting is essential and
19	to get up-to-the-minute information so that what we
20	bring in the house is actually what's needed, I think,
21	is essential.

1 DR. WHITE: Okay, I'll go with potentially 2 leading question. Would you agree that just having a 3 policy for privacy and security does not mean compliance 4 and that a simple way to monitor compliance would be 5 valuable? Discuss. (Laughter) DR. TASHJIAN: I think all of us would agree 6 7 with that, I think that's a pretty straightforward 8 question. And, again, I look for ways, and I'll say it 9 again, I look for ways that make the technology do the 10 work. I want it to work for me. So, I want the 11 technology to make it easy to monitor or to make it so 12 that you don't have to monitor. As I said, if the data is there to view but it's never stored, it makes 13 14 monitoring much more simple. 15 MS. SHAFFER: And I think coming from 16 different facets of homecare, you've got hospital-based 17 homecare that has great IT support, they've got huge IT departments, and then you've got these small agencies 18 19 that I've met in the past where they have very little 20 quidance or they're subcontracting out IT and these 21 people may not have or very limited knowledge of HIPAA

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

and what's required. So, I think some standardization 1 2 would be really helpful in the long run. 3 DR. DeLaROSA: I'm going to touch on the IT perspective because I think that it's very important. 4 Ι mean, IT is a support staff of a hospital and this 5 6 outsourcing of IT is, I mean, it's not that it's good, 7 it's not that it's bad, but in my own situation, I see the limitations of as we're trying to employ EMR, in 8 9 terms of all of these new devices, everything moving 10 forward, and there's not enough support to be able to 11 support the physicians and teaching them how to use the 12 mobile devices, the electronic records, et cetera, as 13 we're moving forward. 14 So, I think one take-home message that I 15 would state is that really IT is essential in moving 16 forward with what we want to do because it's just not 17 there and not all hospitals and all organizations and we

18 do find this outsourcing happening more and more and 19 it's very difficult when you have a problem as a 20 physician that all of a sudden you get put on hold and 21 it's in Plano, Texas, or it's in New York City, and then

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

somebody will get back to you in 24 to 48 hours. So,
 something to consider that IT is essential in moving
 forward with this.

4 DR. WHITE: From what I've heard, as well, it's a real issue for providers in places that they 5 6 don't necessarily have access to folks who are trained 7 or capable and getting workforce across the country where health care is delivered that can provide you that 8 9 kind of support is really important and critical and 10 successful use, whether it's mobile or other kinds of IT. For what it's worth at AHRQ, we've heard that a 11 12 fair amount.

13 So, Lisa?

14 MS. GALLAGHER: So, the question was whether 15 we believed that simply having a policy is enough for 16 compliance. So, as we all probably know, the compliance 17 regime that we're dealing with is primarily risk-based. 18 So, whether it's HIPAA or whether it's meaningful use 19 requirement or measures, we're talking about doing 20 ongoing security risk management. Oftentimes, if 21 organizations are doing security risk analysis at all,

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 they're just doing it once and they're documenting it 2 and moving on. So, really, the connection between the 3 policy and procedures, what employees are supposed to be doing as part of their use and access to the data and 4 5 what they're actually doing is the connection that we 6 need to make. So, training them, having them understand 7 the policy that does exist and that is important and the procedures that they need to follow, but also monitoring 8 9 somehow what they're actually doing, what their actual 10 practices are in trying to manage that and getting them 11 back in compliance with the procedures is really the 12 scope of the full risk management process. And, so, you 13 don't just have a policy that's on the shelf; it's used 14 as a tool for employees to understand what they need to 15 do as part of their workflow.

DR. WHITE: Okay. So, you all have grappled with these issues extensively. I'm not going to ask you to necessarily tell personal stories, but if you were confronted with the situation, right, where something happened, right? Somebody left a phone somewhere or whatever and information got out, how do you think that

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	would affect, A, the way you're using it or the way your
2	colleagues are using it, OK, at the present time and
3	then what do you think would happen to move forward?
4	Everybody has kind of that sentinel moment where ooh,
5	that happened. Maybe it's happened to you, maybe it
6	hasn't, but if it did happen to you, what would happen?
7	Did everybody suddenly go oh, my God, we weren't
8	thinking about that or yes, we were thinking about that,
9	but one slipped through. Can you relay any experiences
10	like that, without naming names, of course?
11	MS. SHAFFER: I think it brings a definite
12	heightened awareness of protecting the device itself
13	because we've had a laptop stolen and it's a scary
14	prospect and I think we go ahead and we share that and
15	we make sure that the staff is aware of it that you
16	can't leave it in the trunk of the car, you can't do
17	that. People will break into your trunk and take it.
18	So, I think it brings a heightened awareness and I think
19	a new certainty about what they're supposed to be doing
20	and not slacking and not following the policies that we
21	provide.

1	DR. HEILMAN: Those set of events usually
2	bring a rapid cease and desist order from our Compliance
3	Department, and then broad-based education and the new
4	policy and then education more and then more
5	enforcement. So, I mean, that's just sort of the route
6	things take coming down the channel.
7	DR. WHITE: So, that's like within a big
8	infrastructure. Chris, if you're not a big
9	infrastructure, what does do to you?
10	DR. TASHJIAN: Yes, again, and I think it
11	goes back to let's let the technology do the work. So,
12	anybody who has we don't use laptops, but we use
13	tablets and we use mobile phones, and they can all be
14	remotely wiped. So, the real question is: As soon as
15	you find out that you've missed it, it's incumbent on
16	you to first wipe it and then tell us.
17	DR. WHITE: Night-night, iPhone. Gone.
18	DR. TASHJIAN: Yes, and just render it
19	useless, and it's really interesting because I don't
20	know how many people are aware of this, but every iPad
21	has a unique number. Every iPad can be wiped from

1 access to the Web from any spot in America or any spot 2 in the world, really. 3 DR. WHITE: Yes. 4 DR. TASHJIAN: So, again, is take advantage 5 of the technology and then we do stuff. As I said, in 6 homecare, you need laptops. We don't, and, so, we take 7 advantage of that because I don't know how to remotely 8 wipe the laptop that's not plugged in. 9 DR. WHITE: Jacob? 10 DR. DeLaROSA: Well, it's about education, 11 but an example in a smaller arena is in the operating 12 rooms. And when you're operating, the physician leaves 13 their mobile phone to be answered by a nurse, 14 circulator, or somebody in the operating room. And an 15 incident that happened was a risqué message came through 16 on a mobile device. 17 DR. WHITE: Nice. 18 DR. DeLaROSA: Which then was accessed by 19 whoever answered it and it was supposed to be a personal 20 message. And that brought out a lot of education 21 because that happens. (Laughter)

ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 DR. WHITE: AT&T moment, right? 2 DR. DeLaROSA: Yes, it was a moment. Yes, it 3 was a MasterCard moment. It was priceless. But it was, right away, the education came back about that you're 4 5 not the only one seeing these sometimes and now save the 6 private information. I mean, it could have been about a 7 patient, but it was, again, another personal message. 8 So, right away, that became an education, everyone had 9 to go through education. Physicians, nurses, techs, et 10 cetera, so, that's how it gets around.

11 MS. GALLAGHER: So, six or seven years ago, 12 when I was still doing consulting, I was working in a 13 small hospital doing a risk assessment, and I asked the IT quy, I said, what do you do if a physician loses two 14 15 or three mobile devices in a year, because it had happened at that hospital, and he said well, we give 16 17 them another one. (Laughter) So, and I said well there's no consequences? Oh, no. We have been told we 18 19 don't, we can't do that. That's six or seven years ago. 20 Now, I think there really is an awareness and it's 21 brought about by a number of things, not the least of

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	which is the breach notification process and the wall of
2	shame that's maintained on the HHS web site. I get
3	calls all the time about that. Look, the organization's
4	name is on there. There is a much broader awareness and
5	I think it goes all the way down to the individual
6	employee level that the physical protection of mobile
7	devices is very, very important. It's then how do we
8	implement that and how do we monitor that, but big
9	difference in the last few years.
10	DR. WHITE: Okay, we've asked the Internet,
11	and the Internet has responded. So, we're going to go
12	with a couple rapid fire questions here. So, I like
13	this one. How does a provider know if they're buying or
14	using a trustworthy app? That's like Monty Python. How
15	do you know she's a witch? (Laughter)
16	DR. DeLaROSA: Yes, I mean, that is
17	challenging and you go by reviews. You try to see other
18	people's reviews to see if it is a legitimate app, if it
19	does work. From a personal experience, I thought I was
20	downloading an app that somebody had told me about for
21	calculating BMI, Body Mass Index, and BSA, and I did and

1 the next thing I knew, I was sending messages about 2 Viagra and Cialis to everybody from my account. So, I 3 qot --4 DR. WHITE: Oh, Dr. DeLaRosa says so. 5 (Laughter) 6 DR. DeLaROSA: Yes, so, I mean, I got some 7 kind of Trojan Virus or something on there then I had to 8 get it cleaned off and get a new computer, actually. 9 So, again, you don't know, you try the best you can, you 10 go to reviews and see what people say, but it does 11 happen. MS. GALLAGHER: So, my advice would be assume 12 13 that it's not secure and the apps that are used in the 14 clinical workflow should really be vetted by the 15 organization and everyone should receive training on 16 them and understand the security controls that are contained within that app, and if that's not the case, 17 18 individuals should not be downloading apps for their own 19 usage in the organizational workflow. 20 DR. WHITE: All right. Let me jump to the 21 next question real quick. I want Dr. iPad and iPhone

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	and the smartphone for 10 years to answer this. What
2	are your top three considerations for apps and what
3	design feature do you look for?
4	DR. TASHJIAN: Well, what we've talked about,
5	what we've used for the 10 years is I want access to
6	information. So, information like Hippocrates up-to-
7	date, something that can help me right here and now when
8	I need it.
9	Second thing I want from it is access to my
10	records or access to the patient records. I mean, let's
11	be honest, they're not mine, they're the patients', and
12	I want access to them so I can provide better care.
13	And the third thing I want is a way to
14	communicate with my patients, and I'm not sure if that's
15	not the first one, to be honest with you, is I want to
16	be able to use that device to send information to my
17	patients, i.e., your cholesterol is this, let's try
18	something and come back and see me in two months or
19	how's your child doing? I knew he had a fever
20	yesterday; can you just touch base with me and let me
21	know that they're doing okay? That goes a long way to

1	care, that goes a long way to reducing the cost of care,
2	and it provides a better experience both for the
3	patient, but also for the physician.
4	DR. WHITE: Yes, my family's practice has
5	been wired for a couple of years, but I'll tell you, the
6	biggest difference it makes is being able to say oh, I
7	got this quick one, zip it off, and my provider is
8	outstanding within an hour or two, zip, he answers right
9	back. I'm like oh, good, I didn't have to worry about
10	that falling off my plate, I don't have to worry about
11	not having the answer for a long period of time, so, I'm
12	with you on number one.
13	DR. TASHJIAN: Let me give you an example of
14	that because, just yesterday, I got a call from somebody
15	who says I know I have testicular cancer, doc, I know I
16	do. He gave it to me and he was so worried and he was
17	so concerned, but having the ability to schedule an
18	ultrasound and get it done and tell him relax, this is
19	going to be okay and do all of that within a period of
20	five minutes is tremendous. Now, some people say yes,
21	but aren't they bothering you? I said it doesn't matter

1	what happens. If he does it in the old-fashioned way,
2	he calls the office and my office calls me and then I
3	have to tell my office to do this, it actually takes me
4	more time. So, in a lot of ways, it saves time.
5	DR. WHITE: Yes.
6	DR. DeLaROSA: I just want, a caution to
7	providers, that we can't just be so cavalier and we
8	cannot forget in regards to the one-on-one and the
9	personal experience. I sit on several committees, and
10	one of them has been just sending messages that you have
11	cancer or the test was positive. Those are not the
12	things that you want to send by text, by e-mail, and
13	I'll see you on Monday. Those are the things that are
14	still communicated one-on-one. It could be over a
15	telephone, but it has to be still communicated, and I
16	think I have to caution providers that we're getting to
17	this, again, this grey realm, being able to communicate
18	right away, but, again, let's not forget what messages
19	we're sending at the same time.
20	DR. WHITE: That is an outstanding point. I

21 appreciate you bringing it up.

ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

In the same vein, but with a slightly
different take, this is a good question. In the course
of your interactions with patients, have those patients
expressed concern regarding the security of their
personal health information? Do they ever freak out
when you pull out your device and go oh, you can do
what, where?

8 DR. HEILMAN: You're going to get a mixed 9 response. I mean, there are some people that do that, 10 there are some people that don't. I mean, our patient 11 portal, the average age of the person who accesses that 12 -- or their information is getting online right now is 13 69. Our oldest person is 82, I think. So, I mean, and we're just rolling it out, but my point was that it's 14 15 not necessarily age differential about people who are 16 concerned about their information being out there. I 17 think a lot of people know technology is coming, they're 18 impressed by the technology, and if I could walk in an 19 exam room and show them their fracture on my iPad or 20 show them that CT scan, they're impressed by that. I've 21 rarely gotten the response from a patient that says oh,

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 I'm scared you got that on there, will you wipe it off 2 because you don't want to get into the technology and 3 tell them it's not really on my iPad, I'm just remoting in, but I rarely get a negative response most of the 4 5 time. 6 DR. WHITE: So, they trust us to be 7 responsible with their information. 8 MS. GALLAGHER: I was going to say that every 9 major survey that I've seen indicates that the trust 10 relationship is still with the physician, provider, and, 11 so, that, of course, is something that we need to honor, 12 but, yes, they do generally have trust that if that 13 technology is implemented that the provider is doing it 14 in a way that it's secure. 15 DR. WHITE: Okay, so, also thinking about the 16 different people that we serve, good question: How can 17 mobile health benefit underserved populations, 18 especially patients with chronic conditions and 19 adherence issues, patients who don't have coverage? We 20 all take care of these folks, we all know that they 21 maybe don't have access, they may not even have access

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 to information in the way that folks normally do, but 2 they may have their cellphone that they get texts on. 3 That's a link for them. Have you all seen in your 4 experiences ways to connect with populations that we 5 haven't been able to connect with before or ways that we 6 can serve them better?

7 DR. HEILMAN: Oh, I do think absolutely, that 8 mobile technology will help especially in things like 9 home monitoring. We have high-risk maternal patients 10 that we're trying to monitor from large distances and if 11 we can just monitor fetal heart tones and things like 12 that to know things are going well, that's a benefit.

13 Chronic CHF patients who are going home, just 14 being able to record their weights on a daily basis to 15 see what's going on, we have a grant submitted to kind 16 of kind of help monitor that and get that infrastructure 17 set in place. Monitoring COPD patients or asthma 18 children who are in certain areas that may not have 19 rapid access to their physician monitoring peak flows. 20 Those are some of the great things that I think are on 21 pipeline coming our way that will be leveraged by using

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

mobile device technology that will help us to provide 1 2 better care to those rural areas. 3 DR. WHITE: Okav. 4 DR. TASHJIAN: I can think of 100 different things we can do. We haven't done them because we 5 6 haven't figured the security out yet, and, so, that's 7 why I'm really delighted to be part of this because if we can figure the security out, and I think we can, I 8 9 think the sky's the limit and communication is going to be the next major leap to providing better care. 10 11 DR. WHITE: Great. Wow, I like that. 12 So, I like this one. I like a lot of these. 13 How do you keep track of who's accessing your records 14 remotely and what if someone quits? Ooh, that's good 15 because we have people leaving our organizations all the 16 time, and especially if they've got their own device, 17 yes, maybe you can change the password, but is there a 18 way to make sure that that happens in a timely way? 19 What are you all doing with that? 20 DR. DeLaROSA: For us, the security, it gives 21 you this little icon that comes up and it says you're

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

about to access a record, are you sure you want to
 access this record? And then you're imprinted and then
 it says this will be marked that you have reviewed this
 exam.

DR. WHITE: Ah.

5

6 DR. DeLaROSA: And, so, now then there are 7 two icons that go on at the beginning and at the end now 8 that you have been there. Your name, your ID, et 9 cetera, you're logged on, and I think we're cautioned 10 and educated that if you leave a computer to logoff 11 because somebody else could come on and can use it, et 12 cetera. Those are the ways of the security that we have 13 in regards of knowing if somebody's been on there or not 14 on the record.

15 MS. SHAFFER: We also go ahead and take their 16 name and password out of the VPN so that way they can't 17 get through at all.

DR. HEILMAN: Our HR software, once someone's terminated in the HR software, that feeds into our EMR and everything else that has passwords and deletes those, and, so, they can't beep you in, they can't log

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

19

1 in, and then the mobile technology third party, we have 2 on our devices that we've partnered with, we're able to 3 actually wipe the devices if we want to. 4 MS. GALLAGHER: So, what Dr. DeLaRosa was 5 talking about is the actual implementation of a security 6 audit log where we can log every access to patient data, 7 even if it's a read access, and health care is dealing 8 with an upcoming regulatory requirement for an 9 accounting of disclosures which would require us to be 10 able to log, track, and report on not only the 11 disclosures, but the accesses to the patient data. So, 12 that's something that employees should be knowledgeable 13 about and should be trained about because even if there 14 isn't an immediate indicator, they should know that that 15 data is being logged. 16 DR. WHITE: Okay, go to Chris. 17 DR. TASHJIAN: I was just going to say having 18 the ASP model really helps that because we don't have to

20 came to meaningful use and doing the security aspect, we 21 had to do the security that happened on our campus, but

keep track of that, our vendor does, and, so, when it

ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

all of the technology security, all of the access issues 1 2 were handled by the ASP environment. So, again, I can't 3 recommend that more. 4 DR. WHITE: Okay, good deal. 5 A couple of you mentioned this in your 6 initial comments, but we'll lead back to it. Can you 7 speak to the security issues associated with using Wi-Fi to input confidential information into an online 8 9 database? Some of you mentioned using, getting access 10 to public Wi-Fi and stuff like that and it's become more 11 noticeable in the past year or two, something like that. 12 Experiences with that that you want to share? 13 MS. SHAFFER: Because most of our providers 14 are out in the field, they want to be able to download 15 their information so that everybody in the office can 16 see who needs to see, but there's a challenge with that 17 because you don't, you're a little uncomfortable with them going to the McDonald's or Starbuck's and logging 18 19 There are policies we have about not allowing them on. 20 to do that, but it's difficult to monitor that and 21 regulate it. So, that's a huge challenge. We give out

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

Sprint cards, but sometimes that's not always very
reliable either. Coverage, like I said, even in New
York City, can sometimes be a challenge.
DR. WHITE: So, it seems like it's got to be
at a software level, right? You got to assume that the
pipe that you're working on is compromised, even if it's
not, and that you got to be passing information back and
forth that people can't really intercept and look at it.
Fair? Okay. Good deal.
So, I'll ask you a big question. A lot of
these are specific questions; this is a big question.
Where do you see the challenges in the intersection of
policy and technology in mobile health? Discuss.
(Laughter)
MS. GALLAGHER: Well, I think that what we're
seeing is that with regard to mobile technology
specifically, it's very often being deployed before
there even is a policy. And that's not the case with
EHR technology and other technologies, but with mobile
technology, people use it in their everyday life, they
want it now, and they get it. So, in a lot of cases,

1	we're actually going back and catching up on the
2	policies and it's not just documenting what the policy
3	is, but what it should be and at the state that we want
4	to get to regardless of how we got where we are and the
5	fact that we deployed these things before we were
6	organizationally ready. So, I think that's a challenge,
7	and, so, at HIMSS, we see folks coming to us for
8	resources to help them do that.
9	DR. DeLaROSA: The challenge from the
10	provider standpoint is when the technology is there, you
11	hear about it from a friend, a colleague, from someplace
12	else, you want that right away. It's just like the
13	iPad. It comes out next week or something - today and
14	people want it right away, but then the policies aren't
15	there yet and then, all of a sudden, there's a
16	disconnect between administration and the policymakers
17	and the physicians that why don't we have it yet? We
18	need it now. It should have started yesterday and it's
19	going to take months to implement to make these
20	policies. So, it is a challenge that we face that, as
21	you know, as physicians, we want things now for our

1 patients.

2	DR. WHITE: Well, either you don't want it,
3	it's like no, no, don't want it, don't want it.
4	DR. DeLaROSA: Don't want it.
5	DR. WHITE: And now it's like why don't I
6	have it? Yes.
7	DR. DeLaROSA: Exactly. So, there is a
8	problem. So, and we wish we had policies in place or
9	there was a standardized place that had policies that
10	you would be able to take from them and sort of like a
11	whitepaper, and then pick what you wanted from it to
12	make your policy.
13	DR. HEILMAN: I think we're faced with a
14	little bit of a contradiction right now because we're
15	trying to free up technology information and data as
16	much as we can, join the Health Information Exchange,
17	get this information out there, push it out to
18	everybody's mobile device, but, at the same time, don't
19	violate any HIPAA rules, don't do anything. So, I'm
20	going to put policy and governance in that says make

ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	same time, I'm going to demand you free that data up and
2	push it out as much as you can. So, that's where I
3	think some of those crossroads are coming into.
4	DR. WHITE: A lot of folks have kind of
5	argued for a new social compact and social understanding
6	around that the context in which we handle information
7	now is so much different. So, unfortunately, got to get
8	people to think about that all the time.
9	So, let me go from one big question to
10	another big question. We've been talking a lot about
11	how we currently the devices and what we've seen in
12	terms of value. One of the forward-thinking things that
13	people were discussing are Accountable Care
14	Organizations. So, for Accountable Care Organizations,
15	do you think mobile health applications would help the
16	communication and transition of care? And I know the
17	answer is yes, but then could you say a little more
18	about that?
19	DR. TASHJIAN: Well, I touched on it earlier,
20	but let me just take an example of this. We're all now
21	being looked at as how many heart failure patients get
	ANDERSON COURT DEPORTING

1	readmitted within a month, within six months, whatnot.
2	I think communication is going to be the big key that
3	reduces those readmissions and reduces the morbidity.
4	And, again, somebody was talking about
5	entering weights and transitioning back and forth,
6	communicating those so we know when to reach out. I
7	think mobile or otherwise, that technology is going to,
8	by enhancing this communication, we're going to catch
9	things before they get too far down the line. So, it
10	just seems reasonable to me that it's going to decrease
11	the cost of care and, in fact, we're counting on it
12	because as an independent clinic, we've already signed
13	some total cost of care contracts, we're using our
14	patient-centered medical home, we're using our
15	technology, and we're basically betting the bank that
16	it's going to pay off and we think it will.
17	DR. HEILMAN: Yes, I attended a lecture at
18	HIMSS this year actually that was given by the people at
19	Kaiser, and they were just talking about how they were
20	able to leverage e-visits essentially because it's
21	basically a capitated model where opening up that line

1	of communication and not worrying about being reimbursed
2	for the visit, if you take that out of the equation,
3	patients can communicate with their physicians a lot
4	more freely, back to capturing those illnesses early
5	before they go too far or treating those simply cases
6	quickly to avoid the office visit, to avoid the ER visit
7	and avoid those additional costs. Huge win.
8	MS. SHAFFER: And especially, too, when you
9	bring homecare into the mix, we have telemonitoring and
10	we've caught many patients who have been in CHF and
11	trying to get them standing orders to be treated for
12	home, and we've kept them out of the hospital that way,
13	which is definitely cost-effective.
14	DR. DeLaROSA: The challenge that I see is
15	that it's difficult to educate administrators about
16	this. It's interesting to get all this data, but you
17	need to have somebody to interpret the data to feed it
18	back and then they don't see the ROI in hiring another
19	person who is not producing and I've heard it from
20	several hospitals, the investment of putting the person
21	in there to interpret this data, what's our ROI on this,

1	and there is significant, as we hear, but people from
2	readmission, getting them back in the hospital, but that
3	is the next step of how do you get administrators to
4	understand that aspect of that, interpret the data?
5	DR. WHITE: And do you think we can do this
6	without good mobile technology, without good
7	communications that we're going to be able to coordinate
8	care better? I know I'm asking a biased group. It's a
9	small sample, sorry. But that's okay.
10	MS. SHAFFER: I don't think that's possible,
11	no.
12	DR. TASHJIAN: And, again, it's another tool
13	in our armamentaria. As physicians, and, unfortunately,
14	I've been here long enough to see things come and they
15	do help and we make these transitions, and I think this
16	is just another one of those that's inevitable.
17	DR. WHITE: Okay. So, I'm going to ask you
18	one that makes me a little nervous, but it's near and
19	dear to my heart given what I do. Discuss the value of
20	academic research in this field. (Laughter) I'll let
21	you hang, it's good. (Laughter)

1	DR. TASHJIAN: I will just say that as a
2	practicing physician, I don't do academic research in
3	general, but anything you can give us to help us is
4	greatly appreciated. (Laughter)
5	DR. HEILMAN: Well, back to Dr. DeLaRosa's
6	comment, I think if we can get published articles on the
7	ROI and the benefit to the patients and the benefit to
8	the organizations that institute this sort of
9	information from research, all for it.
10	DR. WHITE: Helps push you along.
11	DR. HEILMAN: Absolutely.
12	DR. WHITE: Published articles on the value
13	or on the quality of care, that it makes it safer or
14	that it makes it more effective also helpful?
15	DR. HEILMAN: Absolutely. As payments models
16	are being shifted to being reimbursement for quality, if
17	you're saying the only way you can really attain those
18	goals is by leveraging this technology, why wouldn't you
19	go for it?
20	DR. WHITE: Gotcha. Okay.
21	MS. SHAFFER: And there have been some

published studies on telehealth and re-hospitalizations.
 So, it's out there.

3 DR. WHITE: Okay. Basically, when it's 4 there, it helps you make the case to the executive's 5 leadership of your different organizations that I can 6 move this forward or, in Chris' case, maybe it will 7 actually help him think about oh, maybe I can deliver 8 care this way or do this differently and it's going to 9 make a difference in what I do. Okay. Good deal.

10 Get back to the mundane here for a little 11 bit. What kind of technical assistance do you receive 12 for your mobile device since there are always upgrades 13 and new functions going on and, again, Steve started to 14 touch on this. We don't do that, we don't do that, 15 okay, we do that. So, I mean, Chris is probably his own 16 IT Department, right?

17DR. TASHJIAN: I was going to say we have18Gordy.

19 DR. WHITE: Yes.

20 DR. TASHJIAN: Gordy is the IT Department. 21 He handles all of the access to the Web, he handles the

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	mobile devices, he handles everything, and, again, it
2	works for us because we use this ASP environment. So,
3	we only need to manage what's onsite, what's in our
4	hands. Everything else is managed by Cerner, our
5	vendor, and that works very well for us.
6	DR. HEILMAN: We have a fairly significant
7	helpdesk that gets lots of calls.
8	DR. WHITE: Yes.
9	MS. SHAFFER: We have a large IT arm in
10	Montefiore, but we also have our own little IT force
11	right in our homecare agency, so, we're very fortunate.
12	So, they handle a lot of the technical aspects of the
13	laptops.
14	DR. WHITE: Yes, okay.
15	DR. DeLaROSA: And we have, it's about 1 IT
16	per 35 health care providers, and is that sufficient? I
17	don't know and I don't know of any data to show that you
18	need so many IT per provider. I don't know if there's
19	any data out there on that or if there should be, but
20	that's how it is and it's a constant push for, again, to
21	get more IT, and, again, you get back to the issue of

1	what is the ROI of hiring another person who's not going
2	to be bringing income and then it goes back to the
3	change and what value is. Value is quality over costs.
4	DR. WHITE: There you go. All right, last
5	question. What are the main barriers besides costs that
6	hinder the spread of innovative health technologies?
7	Pick one.
8	DR. DeLaROSA: I think one of those from a
9	provider standpoint is that many people don't want to
10	change. Change is hard and it's not just in senior
11	physicians, but it can be in younger ones, but most
12	younger ones, they're texting on their way to their
13	interview. I mean, that's what they do, but for senior
14	physicians, change is hard and they don't want to
15	change. I've done this for 30 years this way and it
16	works, why should I change now from writing on a note or
17	a pad? Those are the issues I see as a challenge.
18	DR. HEILMAN: I agree. Again, culture is
19	probably the first obstacle we face on most things, but
20	then it's just prioritization. I mean, there are over
21	400 projects on the project list in our IT Department

1	and we're having to go through and say limited manpower.
2	Not costs, but manpower, which ones are we going to go
3	after first? And, obviously, every physician and every
4	practice thinks his initiative is the most important,
5	whether it's his registry, his database, his new way of
6	documenting cardiology. All of those have high
7	priorities, but you can only tackle on so much per time
8	and you have to really prioritize which ones you're
9	going to go after first.

10 DR. TASHJIAN: We're small enough that we can 11 tackle the culture issue, but where we really struggle 12 is this mushroom of opportunities that sits in front of us. How do we choose the right one? How do we choose 13 the ones that are actually going to help us because we 14 15 really can't afford to go down the wrong road, we need 16 to pick the right ones and for the right reasons. So, I 17 think that's our biggest concern.

18 MS. GALLAGHER: So, for the IT Department, I 19 think the broader discipline here is the management of 20 disruptive technology, so, things that aren't part of 21 the workflow now that we want to integrate into the

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	workflow. And too often, the IT folks are focused on
2	management of the network and micro level things, but
3	that discipline so that they handle the next new
4	technology or new opportunity in a repeatable manner, in
5	a manner that they can understand and communicate to
6	their executive management.
7	DR. WHITE: Excellent. All right. Well,
8	clearly, you have health care providers out there that
9	are ready, willing, and able and excited to take these
10	technologies and use them to deliver great care and also
11	equally clear to me, which I'm really grateful for,
12	fully appreciative of the issues that go along with
13	using these and the responsibilities that come. So, I
14	hope you will join me in thanking our panelists.
15	(Applause)
16	So, we're going to have a break and we're
17	going to get together in 10 minutes. Okay, 10, 15
18	minutes. Thank you very much.
19	(Recess)
20	MS. MARCHESINI: If I could have everyone in
21	the room to find your ways to your seats, please.
	ANDERSON COURT REPORTING 706 Duke Street, Suite 100

706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1

(Pause) 2 MS. MARCHESINI: We're about to start the 3 third panel focusing on Real World Mobile Device Privacy and Security Practices, Strategies, and 4 5 Technologies. The moderator for this panel is Mr. David Holtzman with the U.S. Department of Health and 6 7 Human Services Office for Civil Rights. He joined the Health Information Privacy Team at OCR in December 2005. 8 9 He is currently working on the development and 10 enforcement of the HIPAA Security Rule. ONC is also 11 working in collaboration with OCR for a larger privacy 12 and security mobile devices and to help put on today's 13 event. 14 Prior to joining HHS, Mr. Holtzman was the 15 privacy and security officer for Kaiser Permanente's 16 Mid-Atlantic Region, where he was responsible for 17 implementing and directing the continuing compliance 18 with the HIPAA Security and Privacy Rules. Ladies and 19 gentlemen, please welcome Mr. David Holtzman.

20 (Applause)

21

MR. HOLTZMAN: Thank you, Kathryn, and I'm

ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	very glad to be here and thank the ONC for inviting us
2	to participate and partner in this important discussion,
3	and at this time, I'd like to invite our panelists to
4	come up onto the stage. Sharon Finney, who is the data
5	security officer for Adventist Health System in Orlando,
6	Florida. Dr. James French, who is a hospitalist and
7	health informaticist with Triad Hospital. Terrell
8	Herzig, who's with the University of Alabama Health
9	System and serves as their chief information security
10	officer. Adam Kehler with Quality Insights of
11	Pennsylvania, where he is the well, informatics jack of
12	all trades. And Micky Tripathi of the Massachusetts
13	Electronic Health Collaborative, where he is the CEO,
14	and Micky can better describe all the wonderful
15	activities that his organization leads and makes change
16	in.
17	So at this time $I'd$ like to turn to our

So, at this time, I'd like to turn to our panel and give them a few minutes to introduce themselves and describe, give us more information about their organizations.

21 Sharon?

ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1

MS. FINNEY: Thank you, David.

2 As David said, my name is Sharon Finney. I'm 3 the corporate head of security officer for Adventist Health Systems. We are one of the largest health 4 systems in the United States. We cover 10 states, 44 5 6 hospital facilities, approximately 300 physician 7 practices, urgent care centers, home health, DME, and a long-term acute care. We have about 8 9 65,000 employees in our environment in support 10 operations for over 12,000 physicians and their office 11 staff, as well as a contingent of other third-party 12 users in our environment. The environment that we've 13 worked in for the last -- at least at the time that I've been at Adventist, which has been the last four years, 14 15 is it's amazing to me that we've been utilizing mobile 16 devices in health care for a long time. They're all 17 over our hospitals and our clinical care units today, 18 but there are devices that the organization has held and 19 owned and bought and purchased and secured. 20 As we've moved forward to look at how we 21

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

integrate these mobile devices into our environment, we

1 are really taking the same approach that we've taken to 2 every other technology that we look at in our 3 environment today. So, as we looked that down, we looked at them from a risk-based perspective and said 4 5 how are people going to use them? Who's going to use 6 them? What data are they going to access? Will it reside on the device? How mobile will it be? Where 7 will it go? How can it be transported from that device 8 9 to other devices? So, we've applied the same risk 10 assessment methodologies to these devices that we have 11 to any technology that we've implemented. And as a 12 result of that, we've kind of separated this into 13 several categories. 14 The first is that we've defined our user 15 population that wants to use these devices into two 16 basic categories: there's a category of users that wants to use it in the clinical care continuum and to 17

18 treat patients and bring their own devices in and then 19 we have more of a business user that wants to use it. 20 So, our executives want to bring it in and they want to 21 use it like their laptop. So, those are two very

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 distinct different use cases in the environment and two 2 very distinctly different sets of data that those users 3 would access. Your executive users have a tendency to 4 lean more towards your unstructured data in the environment and your clinicians generally will lean more 5 6 towards your structured data in your electronic health 7 records and other systems that are used to treat the 8 patient. 9 As we looked at that, we also categorized the 10 devices into personally-owned devices versus devices 11 that we will purchase and buy and own ourselves and 12 we've taken basically two independent strategies with 13 that is that for the devices that we will own, we will 14 control them the same way we have any other mobile 15 device or any other device that we implement in our 16 environment. For those devices that are personally 17 owned, we are taking right now more of a container-based approach to how we deliver to the mobile device. So, we 18 19 look at it as being able to deliver a set of services to 20 an individual that has a device and we don't really want 21 to care what the device is. We want to secure the data

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	and deliver it to the device when the user needs it, and
2	I think those are kind of the important things and
3	strategies around what we've initially done in our
4	adoption of sort of mobile technologies at a high level.
5	MR. HOLTZMAN: Thank you, Sharon.
6	Dr. French?
7	DR. FRENCH: Hi, I'm James French. I'm a
8	hospitalist. I'm working at Mercy Medical Center. I
9	used to work for Moses Cone Health in Greensborough,
10	North Carolina. We had a problem with our health care
11	system. We had 800 to 1,000 med staff, our hospitalist
12	program had 45 physicians, we would be doing anywhere
13	from 50 to 100 admissions a day, and we had to deal with
14	subspecialists under the constraints of length of stay
15	and cost per case. We needed to improve communication.
16	The med staff had everything from devices that were
17	purchased by the hospital to devices that were personal.
18	The med staff, some of them would be on the e-mail
19	system, some of them wouldn't be. Some of them said I
20	use a rotary phone, that's what I use; some of them had
21	the latest and greatest smartphone. It was a nightmare.

1	We had to convey admissions, discharges, deaths, queries
2	every day to the primary care doctors, we had to track
3	down all the subspecialists to find out things about our
4	patients so we can get them through the hospital
5	efficiently, and at the end of the day, we developed a
6	secure, encrypted, private texting network among our
7	providers, as we think has really helped, and tied that
8	into an online scheduling program that we've had a lot
9	of success with, but this is the kind of health care
10	communication needs that as a physician, this is what I
11	see. We've been using pagers since 1970, and pagers are
12	just not working anymore. But now we have the ability
13	with the new smartphones to go into a whole new world of
14	physician communication, and I'm just excited to be a
15	part of that.
16	MR. HOLTZMAN: Thank you, Dr. French.
17	Terrell?
18	MR. HERZIG: Thank you. I'm Terrell Herzig,
19	information security officer for the University of
20	Alabama at Birmingham Health System.
21	To kind of give you an idea about what UAB

specializes in, we're an academic medical center, and 1 2 I'm not sure if many of you have really come to 3 understand how we have a lot of things going on here. But, basically, we have a couple of hospitals that we 4 5 annually admit more than 42,000 individuals, and last 6 year, throughout the health system, we saw more than 1.1 million patients. So, in addition to seeing patients 7 and offering the best in care, we also have the mission 8 9 of training new physicians and clinical staff. In 10 addition to that, we also are very active in research, 11 and by that, I mean we're one of the top NIH-sponsored 12 research-sponsored hospitals. So, we have a lot of 13 different missions in which certainly the interest in mobile devices are being greatly expressed each and 14 15 every day.

16 Our facility does have programs where we 17 equip devices and provide them to our faculty, but we 18 also now are seeing not only the need for devices such 19 as tablets and pad devices be used in patient care, but 20 we also have an expressed interest by our research 21 community to be able to use these devices on the

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 frontlines to be able to collect important research 2 data. Couple that with the fact that a lot of our 3 physicians are also some of those exact same academic researchers and they have facilities both in the 4 hospital and then on the higher academic campus, and as 5 6 a result, they have a need to access information from a host of different locations. Combine all of that with 7 today's health care expansion and the fact that we're 8 9 moving away from physical containers like hospitals and 10 things like that and going mobile with our patient care, 11 and as a result of that, we need to be mobile with our 12 information.

13 Like what Sharon was talking about earlier, our strategies have focused on managing the data, kind 14 15 of being device-agnostic because there's always going to 16 be a new device come down the road, and, as a result, we 17 need to be able to look at how that information is going to be used, what the need to gain access to that 18 19 information is going to entail, and then we build use 20 cases around that, and, as a result, if we can keep the 21 data in the data center, but provide the same access

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

back to the clinician or physician, then we put our
 organization at a lot less risk.

3 Now, we started with mobile device technology 4 and looking at different ways to protect it way back in 5 2005, when we started doing those risk assessments that 6 everyone out there should be doing, and as a result of 7 that, we identified mobile devices as one of our top 10 concerns and we've been working on it ever since. So, 8 9 what we want to do is we want to adopt these devices; we 10 want to make sure that they can be of use to our 11 community, but, at the same time, protect that patient 12 information and make sure that we do not result in a loss of data. 13

14 MR. HOLTZMAN: Thank you, Terrell.

Adam, you bring a different perspective from your vantage point. Can you tell us a little bit about that?

18 MR. KEHLER: Yes, I work for Quality Insights 19 of Pennsylvania, which is part of West Virginia Medical 20 Institute. We also are the Regional Extension Center 21 for Pennsylvania, as well as Delaware, and we're also

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

subcontracted in West Virginia, for meaningful use to
 participate as the REC to help physicians as they
 transition to electronic medical records.

4 My role in particular, I focus strictly on 5 privacy and security, so, helping practices meet that 6 privacy and security requirement for meaningful use, 7 which is conducting the security risk assessment and implementing updates to address those risks. So, I'm 8 9 out there pretty much every day visiting with practices 10 throughout Pennsylvania, both in rural, urban settings, 11 mostly small- to medium-sized practices, everything from 12 a one-physician office up to maybe a 15- or 16-physician 13 practice. And, so, I kind of see the whole gamut of 14 adoption of this technology.

15 There is definitely a lot of adoption of 16 mobile technology both by small providers and larger 17 providers. Generally, I mean, it's along the same thing 18 that people talked about already. There's a lot of 19 adoption of technology, and, often, it's the doctor gets 20 a smartphone or an iPad and wants to try it out and 21 start using it, and it's kind of I'll say a free for all

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

at that point, and actually looking at the security
 risks has not even actually occurred to many physicians
 and practices.

So, when I show up to do a security risk assessment, many of these practices have never performed a security risk assessment before, and, often, there's a bit of a hurdle to get past simply the complacency, the idea that well, there's no patient information on my device, on my smartphone or on my laptop or tablet, and, so, I don't have to worry about the security.

11 So, I would say one of the greatest 12 challenges that I've seen with small providers is simply 13 education and awareness, helping them understand that 14 the different use cases for where protected health 15 information may end up on your device. This could 16 include information outside the electronic medical 17 record system, including text messages. Many answering services send text messages to physicians to notify 18 19 them. This will include patient name, phone number, 20 some symptom information. Other documents that may be 21 stored on laptops or tablets, e-mails, sending and

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

20

1	receiving e-mail, and those are downloaded to your
2	device. So, with the risk assessment, we really need to
3	go outside the electronic medical record system and look
4	at all those use cases.
5	So, what I'll do with them is we'll talk
6	about those use cases; we'll look at what controls are
7	currently in place. Often, they have a passcode on
8	their smartphone or a password on their laptop and
9	they'll have anti-virus in place and they may delete the
10	text messages when they're done with them.
11	As far as recommending additional controls, I
12	found a lot of great value out of the NIST documents,
13	Special Publication 800-53, including things like light
14	listing software so you know what software is on that
15	device and you've done your due diligence, and,
16	obviously, encryption, VPNs, authentication, and things
17	like that.
18	So, as I mentioned, with my security risk
19	assessment, I would say about half of it is education;

21 $\,$ and, so, that's one of the great challenges that small $\,$

the other half is actually documenting security risks,

ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 providers face. It's just understanding what are 2 reasonable and appropriate security controls. 3 AR. HOLTZMAN: Thank you very much, Adam. And, Micky, you bring a slightly different 4 5 perspective in your practice. 6 DR. TRIPATHI: Sure. So, good afternoon. 7 I'm Micky Tripathi with the Massachusetts eHealth Collaborative. We are a non-profit organization that 8 9 focuses on implementation services related to health 10 information technology, both EHRs and HIE, to improve 11 community health, which is our non-profit mission. 12 We work with a large number of physicians. 13 We are the Regional Extension Center of New Hampshire, 14 confusingly enough since we're the Massachusetts eHealth 15 Collaborative. But we are also working as a contractor, just like Adam's organization is and other states, so, 16 17 we're in New York, Massachusetts, our home state, and 18 Rhode Island, and we have our headquarters in Waltham, 19 Massachusetts, in the Massachusetts Medical Society 20 Building, with whom we have a very strong affiliation. 21 We also have an office in Concord, New Hampshire, and in

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 Providence, Rhode Island.

2 So, we're working with roughly 1,700 to 1,800 3 physicians actively right now on meaningful use optimization both as an REC, as formally as part of the 4 5 REC Program, as well as through private engagements, 6 although the work is largely the same. I would echo 7 almost everything that Adam said in terms of what we experience. We're working also down at the very bottom 8 9 of the food chain in terms of very small practices. We 10 don't work with that many practices who are over four or 11 five clinicians in the practice.

12 I think one slight difference between Adam 13 and I, we were comparing notes before, is that at least 14 with the practices we're working with in New England, 15 amazingly enough, smartphone penetration isn't that high 16 yet among the small practices. So, when we think of 17 mobile devices, for the most part, it's about laptops. So, I'll turn to Adam to talk more about the experience 18 19 with smartphones and the things that he's doing there, 20 but I would almost echo almost everything he said in 21 terms of what we're encountering on the ground with

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 respect to laptops and small devices.

2 MR. HOLTZMAN: Thank you very much, Micky. 3 So, the object of this panel for the next hour, hour and 15 minutes is we're going to engage in a 4 5 conversation in how to discuss the use and protection of 6 mobile devices in health care and specifically in actual 7 medical practices. I'd like to invite those of you who are attending in-person as well as those of you who are 8 9 watching this through a webcast, please submit questions 10 to us. The panel is very interested in hearing from you 11 and answering your questions and bringing issues that, 12 so far, haven't been explored. Just a note, the 13 discussions, the practices, and recommendations that 14 some of -- I've already been handed a stack of 15 questions. (Laughter)

16 The discussion of practices and the activities 17 that the experts here are going to describe, they have 18 not been evaluated by the Office for Civil Rights and 19 they don't necessarily represent compliance with the 20 HIPAA Privacy or Security Rules or represent guidance by 21 the Department of Health and Human Services. So, I've

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 done my little disclaimer. (Laughter)

2 So, Sharon, how does your organization 3 integrate different mobile devices into your 4 organizational enterprise setting? MS. FINNEY: Well, David, I think probably 5 6 like most hospital systems today, whether they're probably small or large, most hospitals today provide 7 some public Internet access in their lobbies and for 8 9 their patient areas so their patients can bring their 10 own devices in. And when these devices emerge, that's 11 exactly what happened, they brought them in and put them 12 on the public network, but what we started to see was we 13 started to see more and more physicians coming in with 14 these devices and then we started seeing some employees 15 coming in with these devices and with the smartphones 16 and the iPads and the Droids that are out there today, and as we saw this sort of evolving in our public 17 18 network space that we provide in our facilities, we 19 started looking at what they're actually doing using 20 these devices. I mean, are they just using them for 21 fun, are they doing Facebook and those kinds of things

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	or are they actually using them to work out of our
2	environment and do productive things on them or just for
3	sort of recreational use? And what we saw was that the
4	user population was continuing to evolve into using
5	these devices for more of that blended culture that we
6	have today, which is where you move sort of seamlessly
7	between your work and your personal life and you do it
8	via this device that's in your hand.
9	So, as we looked at that, we started
10	interviewing a lot of our clinicians and physicians and
11	talking to them about how they were using these devices,
12	and as our vendors that supply our electronic health
13	record systems and our clinical systems also are
14	evolving at this time and developing applications and
15	mechanisms to be able to deliver their applications to
16	these particular form factors, and, so, we kind of
17	marched with that evolution and when our vendors came
18	together and were able to provide us the mechanisms to
19	allow that connectivity, we created in our environment a
20	separate network, a segmented network for our
21	physicians. So, that's a quality of service network

1 that when our physicians come into our facilities, they 2 can connect their personal devices to that network. 3 It's not the public network, they do have to register the device with us so we know who they are, and then at 4 that point, we deliver to them sort of a higher level of 5 6 service on that network than you would get in just our public area. And we're also able to drive to them sort 7 8 of the same user experience that they have when they're 9 remote, when they're out of the office so it feels just 10 like they're sort of connecting to the Internet and 11 coming into and accessing the clinical applications that 12 they have available to them already from their home 13 computer or other remote devices that they may have. 14 So, that's kind of where we started and then 15 we progressed to also start to look at well, what about 16 all these employees that are carrying around these 17 Blackberrys and other devices that we corporately owned 18 and given to them and what we found when we polled those 19 users was that they really didn't want to carry two 20 devices anymore. They didn't want their work Blackberry 21 and their smartphone or whatever they purchased. For

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	the majority of the people, they wanted to use their own
2	device, and, so, then we began to look at okay, so, now
3	how do we deliver the services that those users need and
4	deliver them securely to those devices and we chose a
5	technology that would allow us to do that, and, as a
6	result, we've migrated probably about 70 to 80 percent
7	of all our corporately-owned Blackberrys and other
8	devices to personally-owned and delivered services to
9	those and allow them to use them in our network
10	environment. They can connect to our public wireless or
11	use their 3G, 4G service. We provide repeaters in our
12	facilities for them to be able to use that.
13	And then so now what we're looking at is how
14	do we increase those services to those devices because
15	you give them a little bit and then they're going to
16	figure out a new way to use it or something they can do
17	better and stronger and faster with it, and, so, we've
18	created some taskforces and things inside of our
19	environment that allow us to collect a lot of that
20	feedback from critical user groups that are using these
21	devices and use that to also kind of fuel how we build

1 continuing relationships with our vendors and these 2 device manufacturers so that we start to bridge that gap 3 and progress down the path of being able to deliver what 4 they need to do their work. 5 DR. HOLTZMAN: Thank you, Sharon. 6 Terrell, in your setting, another large 7 setting, but with unique challenges, can you share with 8 us how your organization integrates different mobile 9 choices --MR. HERZIG: Sure, absolutely. As I had 10 11 alluded to earlier, we've got everything from medical 12 students coming in with just about every device 13 imaginable. If it's out there, we usually see it 14 presented to us with the request to hook it up to our 15 network. 16 Our approach has been to develop, of course, 17 use cases to see exactly what these devices will need to 18 interface with, what kind of data they need, and it runs 19 the gamut, anything from simple phones to be used just 20 for keeping up with other individuals, with 21 communicating with other physicians, to I need access to

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	some resource out on a network device. So, what we did
2	is we've put together a group of physicians, not unlike
3	Sharon's practice, to actually identify these different
4	cases, document them, and then that actually gave us a
5	set of baseline controls that we need to implement,
6	depending on what the use of the device is.
7	I think one of the things that's critical to
8	note is that these devices are consumer devices that
9	don't necessarily have a lot of security built in them
10	when a user presents them. We have an obligation on the
11	part of our organization to protect that health
12	information, but there's a fine line there, too, not
13	only from the risk perspective, but if you can take a
14	device and you're converting it into a complete
15	enterprise device, then what's the point in supporting
16	these types of devices in your environment? So, what
17	we've tried to do is evaluate, of course, how those
18	devices will be used and put controls in place.
19	As a result of that, we've done a lot of
20	things like what Sharon's group has actively done. You
21	can't directly connect to our network unless, of course,

1	you bring the device in and we can make sure that the
2	controls fit for whatever the different types of use
3	cases are. We have a stratified wireless environment,
4	just like Sharon's environment, we have a public Wi-Fi
5	that's generally open to individuals for their general
6	use, as well as our patients. We don't allow, of
7	course, access directly back into our clinical
8	environment from that particular segment, but we do then
9	have different internal wireless networks that will
10	allow you to interface and allow our clinicians to come
11	in to our medical care systems with wireless devices
12	that we have worked with them to put in place.
13	So, in light of that, too, some of the things
14	that we're looking at now, we have questions, of course,
15	about texting, everybody's interested in texting today.
16	We have a communications system for paging and things
17	like that. We have a very active interest in physician
18	communications and the ability to kind of move away from
19	pagers and more toward these smart devices. So, of
20	course, the security controls we have in place help that
21	quite a bit.

1 Our primary means of access into our system 2 is we, too, want to keep the data in the data center. 3 We really don't want data moving directly to the device. We feel like if we can keep the data off the device and 4 into the data center, then if it's lost, it's much, of 5 6 course, less risk to the organization, but also then it 7 just makes everything a little bit more efficient to reprovision a new device and get it back in the hands of 8 9 the physician or the staff member.

10 So, we have two key ways in which we bring 11 people in. If they're outside our network, it's through 12 VPN or Citrix. We require two factor authentication and 13 I'd like to point out one our good wins here lately from 14 a security perspective is that traditionally, everybody 15 kind of hated the little dongles for two-factor 16 authentication because it was something else you had to 17 carry. Well, guess what? With the mobile devices, we 18 can actually push that control out on the mobile device 19 and make it part of that two-factor authentication. We 20 actually when that went live at UAB, we offered about a 21 week to do a swap out with our clinical staff to bring

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	in your old hardware tokens, we'd swap them out for
2	software versions that run on mobile devices. We
3	haven't stopped converting yet. We only advertised it
4	once and we continuously have a whole flood of walk-ins
5	every day and I'm proud of that because it actually
6	increases security, but it has also increased the use
7	and the ability of people to dual purpose these devices.
8	MR. HOLTZMAN: Thank you, Terrell, for that
9	comprehensive answer.
10	Micky, your perspective is completely
11	different. You don't serve as just one organization,
12	you serve as hundreds. Can you tell us how you help
13	these smaller practices and clinics integrate the mobile
14	devices into their environment?
15	DR. TRIPATHI: Sure. So, we've always
16	encouraged mobile devices in practices. From the very
17	beginning, even though these are small practices, our
18	recommendation was always that they used tablets. I
19	won't name any brands, but your favorite laptop tablet,
20	and we were always encouraging putting these into the
21	hands of clinicians and we still think that that's the

21

1 right strategy because they do then use it and it's a 2 great form of adoption for them to be able to use it 3 offsite and going to the hospital, as Sharon was describing, and be able to sort of have as much of that 4 5 seamless experience as possible so that they're really 6 using the full benefit of the technology. 7 That said, we've become more acutely aware and highly sensitive to the security risks that are 8 9 brought forth by that, not by any experience that any 10 one of our practices had, but by an experience that we 11 ourselves had. 12 So, about a year ago, we had a breach 13 ourselves. Now, we're consultants and we perform 14 implementation services for practices. One of our 15 practice consultants had a laptop stolen from their car 16 when the car was parked in the city and that laptop was 17 not encrypted at the time. We were, ironically enough, in the process of evaluating encryption solutions, but 18 19 as luck would have it, the laptop was stolen before we 20 had decided on a solution and had deployed it.

Our initial thought was that all we do, we

ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 don't normally have sort of a full medical record on our 2 EHRs, I mean on our laptops as consultants, but one of 3 the things we do is help practices with data migration from practice management systems. So, I'll have an old 4 5 practice management or billing system and we'll help 6 them with the data migration from that to the new EHR 7 and there's almost typically almost always there are a 8 certain amount of rejections in the automated process, 9 and, so, what we would do is help the practice remediate 10 those rejections and then delete the information, try to 11 do that as much as possible in the office and then to 12 the extent that there's stuff that we can't accomplish 13 in the office, put it on the device, take care of it offsite, and then delete all the files. 14

So, our initial expectation was, well, there couldn't be that many records on there and it's only demographic information, so, it shouldn't be a big deal. We, fortunately, had a very fresh backup of it and, lo and behold, we discover that there were a few patient records on there, mainly 14,475 individual records. That shocked all of us.

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 So, lesson number one, there is more on your 2 laptop that you realize, even when you're in the 3 position of trying to teach others, which is the position that we were in. Now, it was not clinical 4 5 information per se, but it was PHI, it was absolutely 6 PHI. So, we went through a huge effort then to sort of 7 go through then the forensic analysis, through a mediation process, and figure out what we had to do to 8 9 respond and be in accordance with federal and state law, 10 as well as then figuring out what the go forward path 11 was with respect to our own administrative processes, 12 our physical safeguards, our technical safeguards, and 13 then use that as a lesson learned for the practices. 14 So, a couple of our lessons learned that we 15 tried to now implicate in the practices are, A, don't 16 for a minute think that there's no PHI on your mobile

17 device. Don't for a minute think that that's the case 18 because you've got all sorts of other stuff there. If 19 you're doing any kind of scanning, document management 20 kind of stuff, there's almost always going to be some 21 kind of residual there, despite what the vendor may

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 There are many cases that, unfortunately, we claim. 2 find that the clinicians want to save stuff locally 3 because they want to work with it at home. So, in that 4 case, they may know that they're not supposed to do it, 5 but it happens anyway. In some other cases, it's on there, but they have no idea or that they either don't 6 7 know what's wrong or they have no idea. They think it's secure and it's not. So, that was certainly our 8 9 experience.

10 The other part of it was really related to do 11 you really know who has access to your information and 12 what they're doing with it, which in our case, those 13 practices, unfortunately, were the victims of a 14 consulting organization who came in and they didn't 15 really have a full appreciation of what we were doing 16 and certainly in the electronic world, so much of it happens sort of under the radar. Certainly, if we were 17 18 going to walk out of the practice with 14,000 paper 19 records, someone probably would have noticed that. 20 (Laughter) But the fact that it was on our laptop and 21 everybody was doing the right thing, but we had this

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

20

1	incident, it was certainly a lesson learned and one
2	lesson that we always give to the practices is you need
3	to do a complete assessment, which is like the security
4	assessment, but more from a real business perspective
5	and understand who's in your practice, what they're
6	doing, and what are they taking away.
7	The last thing was that it has to be about
8	more than just administrative safeguards. So, we now
9	have full, needless to say, we have full encryption on
10	all of our mobile devices and that's what we are telling
11	the practices they really need to have, as well, is just
12	full encryption, whole disc encryption because they can
13	have every administrative safeguard in the world, but
14	something is going to happen. Something is going to
15	happen at some time, and in our case, if that laptop had
16	been encrypted, we wouldn't be in the situation that we
17	found ourselves in.
18	The best thing that we can do, it turns out,
19	for practices and helping them sort of get the message

21 that actually was I wrote a column for the HIStalk's

is describe our experience. So, this was an experience

ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 Blog that then appeared in the New York Times. So, it 2 got a fair amount of circulation, and, so, we described 3 the experience to the practice, but we also described how much it cost us. So, it ended up costing us 4 5 \$300,000 to do the full remediation of this incident 6 with the 14,000 records, we ended up having to send out 7 patient notifications, we ended up having to do a lot of legal work, a lot of forensic analysis. We're a small 8 9 organization, \$300,000, and that was -- we didn't get 10 fined by OCR, by the state government, or anything, that 11 was just our cost plus about 600 hours of our staff time 12 to do the full remediation and figure it out. And if 13 all of the other stuff doesn't get the practice's 14 attention, that almost always gets the practice's 15 attention. So, that's almost our best, sort of the best 16 tool now to convince practices to think much more 17 seriously about where they are. 18 MR. HOLTZMAN: Thank you very much. 19 Dr. French, does your organization provide 20 your physicians and both the staff or hospitalist,

21 physician, or the referring physicians with devices or

ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 do you allow your physicians to bring their own devices
2 onto your network?

DR. FRENCH: Well, we've tried it both ways. 3 4 The problem with handheld devices is that initially, it was like driving a car that was designed specifically 5 6 for a mechanic, not necessarily for a driver. So, I have three or four boxes at home full of handheld 7 devices that were bought for me by the hospital that I 8 9 never used ever, and what's really great about Sharon 10 and Terrell and their remarks is that now, we're trying 11 to adapt systems to real-life experiences of physicians 12 and health care practitioners that are using these 13 devices.

14 We provide a subsidy for the physicians; we 15 do not purchase devices specifically for the physicians. 16 This is much, much better than actually buying devices 17 we found. We have to try to make this thing work and 18 the physicians have to be motivated to use them, but 19 physicians will do something if it meets one of three 20 criteria: if it makes more money, it if saves time, or 21 if it improves patient care. If it meets all three

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

MOBILE-2012/03/16

1	criteria, physicians will do it spontaneously. They
2	won't have to be prompted. If it meets zero criteria,
3	they'll only do it unless you threaten to fire them.
4	So, you've got to use a system that will adapt to
5	whatever that they're carrying and the hospital-
6	purchased device, we found, just didn't seem to work
7	out.
8	MR. HOLTZMAN: Thank you.
9	Adam, your experience is probably a little
10	bit different. How do you advise your clients on
11	bringing in devices, whether they're provided by the
12	organization or they're brought in as under a bring your
13	own device policy?
14	MR. KEHLER: Yes, I definitely see both out
15	there, and, as Dr. French mentioned, these devices do
16	often meet those three criteria, and, so, you will see
17	practitioners spontaneously bringing in the devices and
18	adopting them because they do enhance their ability to
19	take care of the patient.
20	What I do with them is I really just guide
21	them through the thought process of doing the security

ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	risk assessment, thinking about the different scenarios
2	you're using your device for, how that ends up storing
3	protected health information on your device or you're
4	accessing protected health information and what are
5	reasonable and appropriate security controls to help
6	protect that information? By adopting these
7	technologies, there will always be an additional risk.
8	We can't remove the risk. What we can do is we can
9	reduce it to an acceptable level.

10 So, I mean, some of the things that I often advise 11 them with is to go through that process, do it in a very 12 thought out manner, and start with policy. Don't jump 13 to the technical solution to find what is appropriate 14 use for these devices, whether it be laptops or 15 smartphones or tablets. Are you permitted to take them 16 offsite, and, if so, what additional protections are in 17 place? Is personal use acceptable on them, and, if so, 18 how are we safeguarding our health information? Is it 19 permissible to install other pieces of software on the 20 device?

21

And once you've developed the policies and ensure

ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	you're enforcing the policies because I definitely see a
2	lot of policies that are on paper that don't actually
3	hold any water as far as governing behavior, once you've
4	done that, then you can look at okay, what are the
5	technical safeguards because, as Micky mentioned, you
6	can have all the policies in the world, but someone is
7	going to lose that laptop and there will be protected
8	health information on it. You can almost guarantee it.
9	So, then you look at the next layer, which is
10	the technical safeguards and the greatest one there,
11	you've probably heard 100 times today, but encryption.
12	If your devices are leaving the practice, it's to me
13	- it's hard to understand why you wouldn't encrypt the
14	device, and when I talk to office managers and
15	physicians and things, often, they're not even familiar
16	with something like full disc encryption. They're like
17	oh, what is that? Like how does that work and then we
18	get into a discussion about full disc encryption and the
19	specifics of that.
20	You have to be a little bit careful with

20 You have to be a little bit careful with21 that. Not all encryption is equal. As many people may

ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	know with I guess a certain popular tablet, there's
2	built-in hardware encryption, but with older versions,
3	there are ways to get around it. So, I mean, really how
4	valuable is that encryption then, even if it is AES 256-
5	bit encryption? So, we have to look at that and I think
6	with the smartphones, the consumer products, we're
7	starting to get there. I don't think they're there yet.
8	There's a few that have always supported full disc
9	encryption, but I think they're playing catch-up with
10	that.
11	And if you're familiar with the NSA's Project
12	Fishbowl, which many people heard about at the RSA
13	conference recently, they were looking for a consumer
14	device that natively supported all of their encryption
15	and security requirements and ultimately, they couldn't
16	find one. I believe they ended up selecting the
17	Android, mostly due to the open architecture and they

18 were able to complement that with their own in-house 19 capabilities.

20 So, we're not there yet as far as encryption,21 but I think we're getting there.

ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

MR. HOLTZMAN: Sharon, could you briefly
describe the some of the technical or technology that
might be available for mobile device management
solutions?

5 MS. FINNEY: Well, now, David, I'm from the south, so, we don't "briefly" describe anything. 6 7 (Laughter) But we have looked at multiple mobile device management strategies, and from placing an agent on the 8 9 device to container-based or what we call sandboxed 10 approaches, which is really more of what you see 11 traditionally in this space. If you have an iPhone, you 12 have multiple applications loaded on that iPhone. For 13 the most part, those are little sandboxes. You can 14 operate within that application whatever you do in 15 there, and then when you close it, it's gone. Okay. 16 The issue around, I think, mobile devices is as what Terrell alluded to, was this concept of the 17 device or the data staying in the data center versus 18 19 leaving on the device. When does the device become 20 dangerous to me or a security risk? It's only when it 21 has the data on it. And, so, what we did was something

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 that we really actually started applying in our laptop world in-house in our facilities. We have thousands and 2 3 thousands of laptops in our environment, some of them we put on carts, some of them we do these rough books or 4 5 things, these ruggedized devices that are made for 6 health care, and then standard laptops that most people 7 carry around, and we started looking at encryption, like most people, around these laptop devices. And as we 8 9 looked at the use case for these various devices that we 10 had in our environment, we found that a lot of the 11 clinical ones didn't really have clinical data on them. 12 They were just being used as conduits to get to the 13 application or access to the data so that they could use 14 the application. They weren't creating or storing 15 anything locally.

16 So, what we did was create a strategy that 17 said you know what; we're locking those devices down. 18 We don't allow anything to be stored on the local hard 19 drive, we lock it down, it has no access to network 20 shares, we don't put Microsoft Office products on it 21 because we put readers on there so they could read

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 documents if they need to, but we said, you know what, 2 that device is for that use case and that's the way 3 we're going to secure it. Now for the ones that are highly mobile we know, like mine, I can store data 4 5 locally, I have a lot of materials on it, I carry it 6 with me, that's fully whole disc encrypted and has 7 appropriate security controls on it. With these mobile 8 devices, we kind of took the same approach and we said 9 if it's a device that we're only going to deliver a 10 service to or we're only going to place an application 11 on it and once that application closes and nothing is 12 stored locally, then we really didn't feel like that we 13 had to take a lot of management control of that device. But if it's a device that we're going to allow to enter 14 15 our network and we're going to place it in our 16 environment, we're going to allow data to be stored 17 locally on it, then at that point, we began looking at 18 some of the available solutions out there to take full 19 control of that device.

20 I still think there are some issues around if 21 that's a personal device because, I mean, if someone

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 signs a form that says yes, I understand, I give you 2 permission, lock the thing if it gets lost, but then 3 when it actually comes time to do that, it can be a little bit of a different scenario. So, we've looked at 4 software-based solutions, we've looked at what the 5 6 vendors natively provide in the environments, and they 7 do provide security controls that can be implemented for these tools or for the devices, but they're very 8 9 device-specific. If you want to go to something that 10 isn't device-specific and be able to control multiple 11 types of devices in the environment, then you're going 12 to have to look at a third-party software solution and 13 there are multiple ones that are out there that you can 14 review that are all quite good, have come a long way. 15 MR. HOLTZMAN: Thank you. 16 Dr. French, do you have an IT staff that is 17 dedicated to assisting your organization and the physicians that you support? And, if so, how do you 18 19 keep your IT staff up-to-date on the never-ending parade 20 of mobile devices, like the ones in your closet? 21 (Laughter)

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

21

1	DR. FRENCH: Well, of course, we have an IT
2	staff. Who else would we yell at? (Laughter) No,
3	physicians are really dumb when it comes to IT in
4	general, so, God, if we didn't have an IT staff, the
5	whole thing would shut down in about a day.
6	As far as keeping everything updated, because
7	of what we did, which is having people use their own
8	smartphones predominately for communication, we've
9	eliminated a lot of the we've got to update the
10	software, got to buy new units, got to look at different
11	vendors. We kind of took that out of the equation. The
12	only thing that we update is our texting platform, which
13	we've designed. We really played a hand in helping
14	design for the health care for our environment. So,
15	they have been helpful, IT has been very helpful in
16	pointing out potential pitfalls and making sure that
17	we're in compliance and making sure that we're secure,
18	but the whole idea is to get away from anything that
19	could cause a snag in the operation.
20	MR. HOLTZMAN: Thank you.

Micky, I know that your organization is

ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	primarily IT professionals. How do you keep your
2	workforce on the edge with the new devices?
3	DR. TRIPATHI: Yes, as it turns out, we're
4	not mostly IT professionals.
5	MR. HOLTZMAN: Oh. Sorry.
6	DR. TRIPATHI: We certainly have IT
7	professionals. So, even better, and, so, we do have IT
8	professionals on our staff who keep up with the
9	technology, but we also live within the larger domain.
10	The Massachusetts Medical Society is a pretty complex
11	organization itself. They own the New England Journal
12	of Medicine, they have tens of thousands of members, so,
13	we have the benefit of being able to leverage the
14	knowledge and expertise that resides there. Otherwise,
15	it would be much more difficult, I think, if we were
16	just a small, non-profit consulting firm out there on
17	our own trying to keep up with all of this and also be
18	in the position of advising practices. I would feel
19	much less comfortable, I think, if I were in that
20	situation.

MR. HOLTZMAN: Thank you.

21

ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

Adam, a viewer from the Web has asked:
 Earlier, you went into, you discussed NIST and
 authentication. Can you briefly go into more detail
 about what kind of authentication you use on mobile
 devices?

MR. KEHLER: Yes, I don't know that I can 6 7 quote the NIST documents verbatim, and, so, I won't try to, but I can talk about general best practices as far 8 9 as authentication. I think one thing that I see a lot 10 is, again, some complacency around the idea that the 11 password protects all. I see a lot of organizations 12 that haven't honestly put a lot of thought into password 13 policies, and, so, we'll get a lot of weak passwords, 14 like 1234 or 1 or the word password, kind of all of 15 that. Yes, raise your hand if I've named your password 16 so far. (Laughter)

17 So, I mean, we definitely want to layer our 18 approaches and not just rely on that password. I do 19 really like the idea of two-factor authentication, 20 especially for remote access, because when we're coming 21 in off the Internet, that does expose us to additional

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	risk. So, some things like, I forget who it was , sorry
2	it was Terrell, mentioned, an app for the second-factor
3	authentication as opposed to the dongle. I know those
4	are becoming a lot more popular, especially with Web-
5	based applications.
6	I would also encourage vendors and people
7	looking at solutions to look at certificate-based
8	authentication. I think that's a very strong form of
9	authentication. You can actually authenticate the
10	device, as well as the person, and I think that really
11	would help a lot, especially for Web-based
12	applications.
13	MR. HOLTZMAN: Thank you very much.
14	We've gotten several questions regarding
15	texting. So, I'm going to survey some folks, just kind
16	of short answer. So, the questions are essentially do
17	your facilities or organizations have policies regarding
18	texting and the use of devices to transmit electronic
19	health information via text? And what about policies of
20	photographing with personal cellphones?
21	MS. FINNEY: I'll take this one first, is

1	that yes, we do have policies around the use of SMS text
2	messaging for our employees, and our policy is that it
3	is at this time not a secure method that is to be used
4	to transmit confidential or patient-specific
5	information. It is capable of being used to be a
6	notification system or an alerting system to allow
7	someone to call back and have discussion.
8	The Joint Commission recently came out with a
9	statement that stated that texting of orders was not
10	permitted, that there was no way, and they had two
11	issues with it. The first is there was no way to verify
12	that the person sending that order is the physicians
13	actually holding that phone. There is no way that the
14	receiving clinician can verify that. And then,
15	secondly, there was no way to get that information into
16	the medical record and because as an electronic piece of
17	the order process, has to reside in the medical record.
18	So, that was their two issues around sort of SMS text
19	messaging. So, that's our policy regarding that.
20	And then the other piece of the question?
21	MR. HOLTZMAN: Use of the smartphone for

1 MS. FINNEY: For photographs. We've actually 2 had some incidents around this, and, so, it's we 3 consider that, as we do the use of any device. I mean, 4 they could easily do it with a camera. I mean, they 5 could have a pocket camera just as well as they could 6 have their iPhone or their cellphone with them, and 7 there's no way that you can control that, there's no mechanism that you can put in place where I get an alert 8 9 every time someone takes a picture. So, we educate our 10 employees that taking photographs of patients or family 11 members or in our facilities is not appropriate and not 12 to be done. If we determine that an employee has 13 violated that, then we have a sanction policy in place 14 and we do sanction employees for violations of those 15 types of things because I think really that becomes a point where there is sort of, that's an invasion of 16 17 privacy of another person to do that, and, so, we take 18 that very seriously.

MR. HOLTZMAN: Thank you.
Dr. French, I know that you come at this from
a different direction. I mean, you were describing

ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 earlier in our conversation how the use of the camera 2 function is very important to your physicians. 3 DR. FRENCH: Yes, we do allow texting of 4 protected patient information because our texting 5 platform is secure and encrypted, which I think is a big 6 deal. We do not allow people to text orders for the 7 exact same reasons that Sharon brought up, but we'd take that one step further. We have work rules where you are 8 9 mandated to text. When a patient comes into the 10 hospital, you are mandated to text the primary care 11 physician with the name, date of birth, and that they've 12 been admitted and look in the EMR for the H and P. When 13 they're discharged, same thing. If they die, same thing. If you have a question about the patient, text 14 15 their primary care physician. So, we think that that's 16 a really important piece to continue.

As far as photographs, absolutely. If the patient approves, it's a good way, because it's encrypted it's a good way to get that information out and not just photographs, and we can attach EKGs, we can attach films, or we'll soon be able to attach documents,

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

and I just see this as a big step forward to ultimately
 getting rid of the pager. So, yes, it is important in
 our practice.

4 MR. HOLTZMAN: Thank you very much. 5 MS. FINNEY: David, I have a follow-up to 6 that, is that I wholeheartedly agree with Dr. French 7 that text messaging is an integral part of the workflow in the clinical world today and I do believe that there 8 9 are secure ways of being able to utilize that in a 10 workflow and many more technologies are emerging around 11 unified communications that are going to bring that even 12 more tightly together. As we've tried to eliminate the 13 number of devices that our physicians have on their back belt every morning when they get up, I don't know if you 14 15 guys have seen a nurse lately on a floor walking around, 16 but I feel like I need to put on a back brace on them 17 and give them something to hold themselves up from all 18 the devices they have strapped on them. And I think 19 that's what unified communications and texting, I think, 20 is just scratching the surface of that, is really going 21 to give us in the clinical world and being able to

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 deliver that in a secure fashion, and it's something 2 that we're investigating, as well, is how we continue to 3 deliver that. 4 MR. HOLTZMAN: Thank you. MR. HERZIG: David, if I can elaborate on 5 6 that --7 MR. HOLTZMAN: Oh, sure. 8 MR. HERZIG: Just a minute or two, the same 9 kind of statement that Sharon and Dr. French are making is the fact that yes, for texting of orders and things 10 11 like that, absolutely not. I think the directives are 12 clear on that. However, I think organizations are going 13 to increasingly want to use text. I know our research-14 based community wants to set up a rapport with today's 15 modern users and will be able to use texting as a way of 16 actually gathering some research data and things like 17 that, and certainly in following up on patient care, 18 there are some potentials there. Again, our organization is approaching it from a very careful 19 20 process, we're looking at tools we can integrate into 21 that unified communications process that are secure and

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	encrypted and can work with you don't have to put a
2	lot of PHI in a text message to still have an effective
3	text. So, again, we're looking at integrating secure
4	products in with our existing unified communications
5	product.
6	MR. HOLTZMAN: Adam?
7	MR. KEHLER: And there, if we can
8	differentiate between SMS texting and just overall
9	messaging because, Dr. French, correct me if I'm wrong,
10	but the solution you've put in place is not necessarily
11	SMS texting, it's a layer over that, it's a messaging
12	platform, and I think that's a good point or good area
13	to differentiate because there are certain risks with
14	just straight SMS texting versus the encrypted solutions
15	that we're discussing here.
16	MR. HOLTZMAN: Thank you, that's a very
17	important distinction.
18	DR. TRIPATHI: David, I had just one other
19	comment. I guess one of the things that concern me with
20	just this topic is that one of the biggest enemies of
21	security, I think is, and perhaps, the biggest enemy, is

1 convenience more than anything else. It's not that 2 people are intentionally violating it because they want 3 to violate it, it's because they're trying to do their jobs and they have a set of tools that make things 4 5 incredibly convenient and that's becoming more and more the case with the different technologies in place, and, 6 7 so, any time we try to have top-down policies that tell people you can't do the thing that's incredibly 8 9 convenient, I just worry about what really happens on 10 the ground.

11 And, so, at least our approach, and I know 12 it's a very simplistic example, because we don't do the 13 wide range of things that clinicians are doing in a 14 complex hospital, but was to really rethink our strategy 15 and to work it from the bottom up to ask the frontline people how do you do your day-to-day life and now how do 16 17 I integrate a set of tools that are going to as much as 18 possible keep your work as convenient as possible so you 19 can get your job done?

20 And, I mean, I talked to a clinician
21 yesterday who's an emergency department clinician, and

ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

he takes hundreds of photos, hundreds of photos on his 1 iPhone, and well, first off, he had a question I didn't 2 3 have an answer to. Is a photo without any identifying 4 information on it PHI? Joy Pritts says yes. (Laughter) Dr. French says no. This physician actually didn't 5 6 know, and he said he wasn't sure how much he cared. 7 He's an emergency room doc, he gets the patient's permission, he takes a picture of a rash, sends it to 8 9 the dermatologist, gets an answer right back, and feels like I did the right thing. I did absolutely the right 10 11 thing. So, how many other examples do we have of that 12 kind of thing and how do you prevent it? I think there 13 are some real challenges that are going to get to be a 14 bigger and bigger challenge.

MS. FINNEY: And I'll respond to a couple of those comments, is I do think one key critical thing that you mentioned there was he got the patient's permission. And that is, I think, the key differentiating factor there. If the patient gives you permission to, the same way that he could have said I want to consult with this other physician, let me have

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 them come in and look at you. It's the same thing; 2 you're just using a photo to do it. I think it's the 3 ones that we're concerned about and the prohibiting 4 factors of our policies is to ensure that our employees 5 are aware that that can potentially be a violation of 6 someone's privacy if you don't get their permission. 7 And there is definitely a use for photographing of things in a clinical setting. Wound care is an 8 9 excellent example, to measure how well a wound is 10 healing over a period of time and we have cameras that 11 we provide to some of our clinical staff. That's 12 exactly what they do, that's then loaded into our 13 medical record, and then it's deleted off the camera 14 itself. So, I don't want to minimize the impact of 15 being able to use photographic materials and devices in 16 the clinical setting, but it's about using them properly 17 and ensuring the patient is aware of exactly what is 18 being done.

19 DR. TRIPATHI: So, that deals with the 20 privacy, but not the security aspect of it. I think the 21 other angle that makes it I think difficult in dealing

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 with small-practice physicians as they're trying to make 2 this transition is they're coming from the fax world a 3 lot of them, right, and with faxes, they don't meet any of the standards that we've talked about. So, the very 4 5 reason you said you won't allow someone to text, is you 6 could not apply that same logic to a fax, but people are 7 faxing hundreds and thousands times a day in their practice. So, I think it's difficult for people to make 8 9 the mind shift of saying wait a minute, I could do it in 10 a fax, but you told me I can't use it on this mobile 11 device. That's not going to work. I'll either go back 12 to faxing, or, more likely, I'm just going to do it on 13 the mobile device. 14 MR. HOLTZMAN: Well, this conversation 15 certainly has shown us some areas where we need to have 16 some further discussion about securing information not 17 just in storage, but in transmission, and what the 18 patient authorization covers and the extent to which we 19 can protect the information and our responsibilities. 20 Terrell, as we integrate more mobile devices

21 into our organizations and of all sizes and scope, there

ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	a number of security provisions that must be considered.
2	For example, there should be some type of, perhaps,
3	access logging. Also, how do we prepare for
4	contingencies like a catastrophic event or downtime of a
5	cellular system or the EHR that it is accessing into?
6	MR. HERZIG: That's a good question because I
7	can tell you from recent experience with some of the
8	tornados and things like that, we went long periods of
9	time in Alabama without some of our cellular
10	infrastructure because it was damaged in that weather
11	and stuff. So, I think as people depend more and more
12	on these devices, the point is is that we have to plan
13	for high availability in use of those systems.
14	Within our health care facility, we have long
15	since been planning, and as we built our infrastructure,
16	we built it in high availability format, and as along to
17	those the ends, the devices that we use in medical care
18	with patients and especially biomed devices, which I
19	know we haven't talked much about this morning, we look
20	for the technology that will allow us to use internal
21	wireless infrastructures, as well as those cellular

1 infrastructures in order to deliver that high 2 availability need. 3 MR. HOLTZMAN: Thank you, Terrell. 4 Adam, how do you help smaller practices and 5 clinics evaluate the cost versus the risk in adapting 6 mobile technologies? MR. KEHLER: Well, I mean, the approach they 7 take in the security risk assessment is I'm focusing a 8 9 little more on helping them understand the risks that 10 they have and what I'll do is I will suggest certain 11 controls to put in place, but, ultimately, you kind of 12 have to leave it up to them to determine what's 13 reasonable and appropriate, what the cost benefit is. 14 I actually have started using Micky's 15 experience in some of my risk assessments where I'll say, I'll just kind of let them know, you know what, if 16 you have a large breach, here's what can happen, and 17 18 it's not just OCR coming and finding you. It is 19 notifying, for example, if you have a copy of 1,000 20 patients on your laptop, it is notifying 1,000 patients 21 and trying to track them down, it's putting your name

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	out there in the media, it's legal costs for determining
2	what your requirements are not just for HIPAA, but also
3	at the state level. And, so, I try to help them
4	understand that part of the cost benefit scenario and
5	then once you talk about that, if you're looking at \$100
6	to encrypt a laptop, that really puts that into
7	perspective.
8	MR. HOLTZMAN: Thank you, Adam.
9	With the remaining few minutes that we have
10	left, we have a couple of interesting questions from the
11	Web. So, Sharon, briefly [LAUGHTER], how do you handle
12	videos from patients to providers for diagnosis, medical
13	advice? A use case would be people who are being
14	transported to the emergency room and the emergency
15	medical technicians use a video link to advise the
16	physicians? And, also, another question: Do you
17	somehow keep or store these videos?
18	MS. FINNEY: It really depends because we
19	operate across 10 states. We also have to consider
20	state law, as well as federal mandates from a privacy
21	and security perspective and what we retain and don't
	ANDERSON COURT REPORTING

1	retain. If it is germane and important to the treatment
2	of the patient, then we would retain it in our secure
3	medical records system as a part of that. Generally,
4	with most of our video feeds that we receive like that,
5	those are generated by the EMS company. That's their
6	video feed to us, so, they really are the ones storing
7	it, not us. We're just a viewer or a participant of
8	that. And that's really how we would handle it. If we
9	provided our own video uplinks to our EMS, then I would
10	think that, yes, we would probably store them period of
11	time, but at some point, we would roll those off,
12	depending what the retention requirements would be.
13	MR. HOLTZMAN: Thank you.
14	Does anybody else on the panel have anything
15	to add to that? Are they involved in the use case, as
16	well?
17	(No response)
18	MR. HOLTZMAN: Okay, thank you. And the last
19	question, I'm going to use my speaker's prerogative, one
20	of the challenges that we've been seeing at OCR is when
21	an organization allows physicians and other health care
	ANDERSON COURT REPORTING 706 Duke Street, Suite 100

706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

professionals who are referring physicians or not admitting practitioners in the practice to gain access to the system. How do you manage the physical and logical security of mobile devices from those who don't normally access your system?

MS. FINNEY: In our environment, David, we 6 7 provide a level of access to a broad spectrum of users 8 in our environment. When we provide access to any 9 physician, whether referring or admitting, they have to 10 go through a process to obtain that access. So, we do 11 put them through sort of some type of a credentialing 12 process to obtain those credentials. In that instance, 13 we would not provide them a level of access that would 14 allow them to store or retain any data on the device 15 they were accessing it from; they would only have view 16 access or some type of access into accessing 17 information, and then nothing would remain on the device 18 itself.

So, I really wouldn't worry about securing their device per se, and then in the event that we also have a process that we use in our environment that's

> ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	called a dormant account review where we go through and
2	any account that hasn't been used in 120 days is
3	disabled and then the physician would have to, if they
4	didn't use their account in that time, they would have
5	to contact us and have those credentials reset. So, we
6	kind of go through a little reauthorization process.
7	But as far as having to secure the actual device, that's
8	something I want to try to stay away from with that user
9	population.
10	MR. HOLTZMAN: Terrell, I see you chomping at
11	the bit.
12	MR. HERZIG: No, actually, I was just going
13	to kind of elaborate. Very similar concept to what
14	Sharon was talking about except we have an ambassador
15	portal that our referring physicians signup for. We
16	have that signup process so we can, of course, give them
17	access credentials. We do give them two-factor
18	authentication to get in, their staff, as well, for when
19	they need access to it. And then they identify, of
20	course, patients that they want to follow and things
21	like that, and they're signed-up, as well, and then when

they access the portal, of course, it's over secure
links then. So, if their device can support access to
that Web environment over the secure links, then, of
course, their device would work as expected. But, other
than that, if they're just in the facility with a
device, it would be treated just like any other public
device, no special access or anything, that it's all
through that portal environment.
MR. HOLTZMAN: Adam or Micky, you're
provisioning the providers that are trying to gain
access to these systems. How do you assist your clients
in these roaming networks of hospitals that they're
trying to gain access to? Okay.
DR. TRIPATHI: So, well, at least the thought
process I was going through was with the hospital, the
hospital is going to deal with that, right? So, that's
one particular use case, and then so, the hospitals deal
with that. I get a little bit more sort of confused
concern about the practice who wants to allow a
referring physician in and what are the shortcuts that
they may provide to allow that? And given that they

1 don't live in an enterprise, typically, now that maybe 2 that there are just some barriers that can never really 3 allow that, allowing with GoToMyPC or any of these kinds of software systems. Sorry, I shouldn't have mentioned 4 5 the brand. I don't even think that's the actual name. 6 But they certainly, I think, are in an environment where 7 they're going to try many, many, many solutions to try to figure out how to do that again because it's 8 9 convenient, not realizing that it's probably not secure, 10 and not that all of them will work because their vendor 11 has probably put in some protections, but sometimes, 12 stuff happens and stuff gets through, and, perhaps, it's 13 the environment isn't as secure as was thought, and, so, 14 they're able to use things that aren't as secure as they 15 need to be. So, I think at least that's really the biggest concern overall is how they would get access to 16 17 an enterprise-type approach to allow that access. 18 MR. KEHLER: Yes, and I'll just build on 19 that. One scenario I do see is especially as it gets 20 into practices with a few more physicians is they'll

each kind of put in their own solution for getting

21

ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	access to their computer, each physician will use a
2	different remote desktop program and kind of do their
3	own thing. So, one thing I always encourage them to do
4	is look at that use case and come up with a solution and
5	standardize it, and any time you're opening something up
6	like that, you're opening up yourself to risk. So, look
7	at also not just locking it down, but look at
8	visibility. How do we review and monitor access to that
9	system? Some of the Web-based, remote desktop systems
10	will allow you to generate alerts so you get an e-mail
11	every time someone logs in or you can at least review
12	the logs and reports because on one side, we have our
13	preventative controls, but we also want to have
14	visibility and awareness.
15	MR. HOLTZMAN: Thank you very much. Well,
16	this has been a great conversation, and I know our time
17	has almost run, but we do want to squeeze in one more
18	question that we received from a viewer.
19	Dr. French, earlier, you made reference to
20	encrypting text messages. The viewer writes that they
21	are looking for ways to do this. How is this

1 accomplished?

2	DR. FRENCH: Well, I can't speak to the
3	actual encryption process. We bought an application
4	that it comes encrypted. So, and as far as controlling
5	access and controlling people outside the system that do
6	get these messages, all of our messages self-delete.
7	So, you set the time period and then it deletes on its
8	own. But all I know for sure is that the encryption has
9	passed our IT people, and I don't want to look like an
10	idiot, but it's so many bit encryption, I don't
11	remember, and it seems to pass muster.
12	MR. HOLTZMAN: Thank you very much.
13	Well, I'd like to thank all of our panelists
14	today. They've done a wonderful job answering questions
15	off the cuff and thank you for sharing your knowledge
16	with us. Thanks to Sharon Finney, Dr. James French,
17	Terrell Herzig, Adam Kehler, and Micky Tripathi.
18	(Applause) Joy will come up and give a few closing
19	remarks, and we thank you for your participation and
20	attendance today.
	accentance coday.

ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1	don't you just sit, then we'll be done earlier that way.
2	Well, I'd like to thank not only this panel,
3	but all of our panelists today. They have been very
4	informative. As you know, this is just one of the first
5	steps in this project that we're undertaking with our
6	partner, OCR, in identifying these important privacy and
7	security issues and solutions for mobile devices.
8	If you haven't had the time yet, we'd also
9	like to thank our audience, both those people who are
10	here in-person and who participated on the Internet. We
11	have had a number of forums where people have asked us
12	for more participation. Oftentimes, when we have
13	meetings, there's only a little piece of time, like 10
14	minutes at the end, where people can comment. So, we
15	really took that under advice. I want you to know that
16	the idea for having more participation during the day
17	actually came from audiences like you. We listened and
18	we implemented it, and I know from our perspective, it
19	has worked incredibly well. We received very insightful
20	comments and questions from the audience both here and
21	on the Internet that have really helped inform this

1	discussion. But this isn't the end of it. If you
2	haven't had the opportunity to submit comments or
3	questions yet, there is an opportunity to do so on the
4	Health IT website, which is posted here for everybody to
5	see, and that comment period will remain open until
6	March 30. And, so, keep your cards and letters coming
7	in. We are looking forward to hearing more from you.
8	We'd like to use this opportunity to also,
9	once again, thank our federal partners. We are the
10	Office of the National Coordinator, and I want to ensure
11	you that we actually do try to do this. So, our special
12	thanks to AHRQ, FCC, FDA, FTC, and from ONC to OCR for
13	being here with us today and showing you that your
14	federal government is very involved in this area and has
15	your back. I'd also like to give my personal thanks to
16	Kathryn Marchesini of my office, as well as MAXIMUS who
17	provided a lot of valuable support to her.
18	The way you can tell somebody is doing a
19	really good job is when you're on the outside a little
20	bit and you feel like it was seamless. So, from my
21	perspective, this was a great, great conference because

1	I had almost nothing to do with it and it went really
2	well. So, I really appreciate all of their effort, as
3	well as that of other ONC staff.
4	We'd also like to let you know that we want
5	to stay connected and to continue to collaborate with
6	you and here are a number of different ways that you can
7	communicate with ONC through Health IT Buzz.
8	Now, given the date and that it's St.
9	Patrick's Day, I'd like to close with a little bit of a
10	revised traditional Irish blessing for you all as you're
11	getting ready to leave for the day. May the road rise
12	up to meet you, may the wind always be at your back, may
13	the sunshine warm upon your face, and the rain fall soft
14	upon your fields, and may your health information always
15	be private and secure. (Laughter) Thank you.
16	(Applause)
17	(Whereupon, at 12:11 p.m., the
18	PROCEEDINGS were adjourned.)
19	
20	* * * * *
21	
	ANDERSON COURT REPORTING 706 Duke Street, Suite 100

706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190

1 CERTIFICATE OF NOTARY PUBLIC 2 3 I, Carleton J. Anderson, III do hereby 4 certify that the forgoing electronic file when 5 originally transmitted was reduced to text at my direction; that said transcript is a true record of 6 the proceedings therein referenced; that I am neither 7 counsel for, related to, nor employed by any of the 8 9 parties to the action in which these proceedings were 10 taken; and, furthermore, that I am neither a relative 11 or employee of any attorney or counsel employed by the parties hereto, nor financially or otherwise 12 13 interested in the outcome of this action. 14 15 16 Carleton J. Anderson, III 17 18 19 (Signature and Seal on File) 20 Notary Public in and for the Commonwealth of Virginia 21 Commission No. 351998 22 Expires: November 30, 2012 ANDERSON COURT REPORTING

ANDERSON COURT REPORTING 706 Duke Street, Suite 100 Alexandria, VA 22314 Phone (703) 519-7180 Fax (703) 519-7190