

CITY COUNCIL  
CITY OF NEW YORK

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TRANSCRIPT OF THE MINUTES

of the

COMMITTEE ON TECHNOLOGY

jointly with

COMMITTEE ON HOSPITALS

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November 20, 2019  
Start: 1:15 p.m.  
Recess: 2:49 p.m.

HELD AT: Committee Room - City Hall

B E F O R E: Robert Holden  
Chairperson  
Committee on Technology

COUNCIL MEMBERS: Committee on Hospitals  
Carlina Rivera  
Diana Ayala  
Mathieu Eugene  
Mark Levine  
Alan N. Maisel  
Francisco Moya  
Antonio Reynoso

Committee on Technology  
Robert Holden  
Diana Ayala  
Costa Constantinides  
Peter Koo  
Brad Lander

Eric A. Ulrich  
Kalman Yeger

A P P E A R A N C E S (CONTINUED)

Kevin Lynch  
Senior Vice President  
Chief Information Officer  
New York City Health and Hospitals

Dr. Michael Bouton  
Chief Medical Information Officer

Dr. Judith Thompson  
Practicing Physicians of America  
Free to Care  
Citizens' Council for Healthcare Freedom

Dr. Leah Houston

Varoon Mather



3 JOHN BIANDO: This is a microphone check.  
4 Today's date is November 20, 2019, joint Committee on  
5 Hospitals with Technology, being recorded by John  
6 Biando, City Hall, Committee Room.

7 CHAIRPERSON RIVERA: [gavel] Good  
8 afternoon, everyone. I am Council Member Carlina  
9 Rivera, chair of the Hospitals Committee, and I'd  
10 like to start off by acknowledging my colleague,  
11 Kalman Yeger. On January 16, 2013, H&H entered into  
12 a 15-year, 302 million dollar contract agreement with  
13 EPIC Systems Corporation, EPIC to replace H&H's then  
14 20-year-old electronic health record system, EHR.  
15 EPIC Systems develops EHRs and currently covers more  
16 than 250 million patients. H&H aims to have EPIC  
17 used at all of their patient care facilities,  
18 including 11 hospitals, four long-term care  
19 facilities, six diagnostic treatment centers, and  
20 more than 70 community-based clinics by the end of  
21 2019. H&H has discussed EPIC at multiple council  
22 hearings, such as a hearing in November 2018 where  
23 H&H testified that they are transferring their EPIC  
24 systems to better meet the needs of those who are  
25 transgender and gender nonconforming, TGNC. By  
making medical information more available, easier to

2 read, and portable, EHRs have changed the way  
3 medicine is delivered in our health care system  
4 itself. However, they raise technical, procedural,  
5 ethical, and other issues. An audit performed by New  
6 York City comptroller, Scott Stringer, found that the  
7 average timeframes in which higher-priority service  
8 restoration issues affecting the EPIC EHR at Elmhurst  
9 Hospital were resolved, significantly exceeding  
10 targets. According to a survey performed by Kaiser  
11 Family Foundation, over half of respondents reported  
12 feeling very concerned or somewhat concerned about  
13 their EHR's accessibility to unauthorized persons.  
14 Additionally, nearly half reported feeling very  
15 concerned or somewhat concerned of errors in their  
16 personal health information that can lead to negative  
17 impacts on their health care. In fact, one in five  
18 individuals say that they or a family member had  
19 already noticed an error in their EHR. Furthermore,  
20 doctors and patients alike have felt the change of  
21 using EMRs during meetings and treatments with  
22 doctors, oftentimes needing to stare at a screen  
23 instead of interacting face-to-face with their  
24 patients. Although EHRs have greatly improved  
25 medical billing and physician compliance

3 measurements, studies have argued that they have yet  
4 to show that they improve patient health. In fact,  
5 one study found significant differences in rates of  
6 mortality, readmission, and complications between  
7 patients and hospitals with full EHRs compared to  
8 hospitals with no EHRs. However, these differences  
9 did not hold when adjusted for patient and hospital  
10 factors. Furthermore, the effects of EHR adoption  
11 was not associated with improved patient outcomes,  
12 specifically in patient mortality, readmissions, and  
13 complications. Another study found that while EHRs  
14 can generate reports, these reports did not  
15 necessarily support quality improvement initiatives  
16 and current EHR measurement functionality may be  
17 insufficient to support federal initiatives that tie  
18 payments to clinical quality measures. Today I look  
19 forward to hearing more about the EPIC rollout of H&H  
20 and H&H's plans to utilize EPIC to better meet the  
21 needs of their patients additionally. I look forward  
22 to hearing about how H&H is handling concerns about  
23 patient privacy and the accuracy of EHRs. With that,  
24 I'm going to turn it over to my cochair of this  
25 committee hearing, Council Member Bob Holden.

3 CHAIRPERSON HOLDEN: Thank you, Chair

4 Rivera. Good afternoon, I am Council Member Holden,  
5 chair of the Committee on Technology, and I'm pleased  
6 to join the Committee on Hospitals, chaired by  
7 Council Member Carlina Rivera. Medical information  
8 stored electronically is protected by HIPAA, the  
9 Health Insurance Portability and Accountability Act.  
10 Under HIPAA hospitals and other covered entities must  
11 insure the confidentiality, integrity, and  
12 availability of all electronic private health  
13 information they receive or transmit. They must also  
14 protect against threats to this information, prevent  
15 unlawful uses or disclosures, and ensure compliance  
16 of their workforce. However, HIPAA also has  
17 provisions that allow for hospitals and other health  
18 entities to disclose medical data to their business  
19 associates. This is to assist with the performance  
20 of the health care, including, but not limited to,  
21 processing claims, billing, services, and  
22 transcription services. This past August Mount Sinai  
23 Hospital had over 33,000 patients' medical data  
24 compromised by a cyber attack on bill services,  
25 contractor American Medical Collection Agency.  
Additionally, Apple, Amazon, Google, and Microsoft

3 all have made agreements with health care providers  
4 to store patient health information and develop  
5 software. The *Wall Street Journal* reported this  
6 month that Google had secretly begun Project  
7 Nightingale last year, which is a partnership with  
8 Ascension, a nonprofit chain of 2600 health entities  
9 to collect, store, and analyze patient data. As more  
10 private health information moves to electronic  
11 storage the risk of cyber attacks, of course,  
12 increases. Having all of this medical information  
13 electronically available raises serious concerns for  
14 data security and privacy. Medical data is an  
15 incredibly desirable form of information for  
16 criminals because it contains personally identifying  
17 information, like, of course, Social Security  
18 numbers, which could lead to identify theft and  
19 credit fraud. Medical data also includes information  
20 that could be used to acquire expensive medical  
21 services and medications and to fraudulently obtain  
22 government benefits like Medicare or Medicaid. The  
23 information recorded in electronic health records is  
24 so valuable that over the past two years the US  
25 Department of Health and Human Services has reported  
568 data breaches nationwide currently under

3 investigation, and affecting millions of people.

4 Thirteen of those breaches were right here in New

5 York City. According to HHS, these data breaches

6 occur in a variety of ways, from network services and

7 emails being hacked to physical devices holding

8 medical information and being stolen, lost, or

9 improperly disposed of. Other health entities

10 experience unauthorized access or disclosure of their

11 health-keeping systems. Considering all these

12 threats, it is incredible, or it's incredibly

13 important, to understand the protection in place for

14 the medical data of New York residents, and we look

15 forward to understanding how the city can better

16 serve and protect its residents and their medical

17 data from the threats of cyber attack as well as the

18 risks and problems that come with storing this data

19 electronically. We wish to work together with the

20 administration on this issue and look forward to

21 hearing their valuable testimony and those industry

22 experts and community advocates. And I'd like to

23 thank my staff, the Committee on Technology, counsel

24 Irene Bahofsky, to my left, and policy analyst

25 Charles Kim, finance analyst Sebastian Bachi, and

Jean Kabor. I'd also like to thank my staff, Daniel

2 Kazini and communications director Ryan Kelly. And  
3 I'll take it back to you.

4 CHAIRPERSON RODRIGUEZ: And with that I'll  
5 have committee counsel swear you in.

6 COMMITTEE COUNSEL: Raise your right  
7 hands, please. Do you affirm to tell the truth, the  
8 whole truth, and nothing but the truth in your  
9 testimony before this committee and to respond  
10 honestly to council member questions?

11 KEVIN LYNCH: Thank you. Health and  
12 Hospitals has submitted an official testimony for the  
13 record, which you have in front of you. I will now  
14 share with you an abbreviated version of that  
15 testimony. Good afternoon, Chair Rivera, Chair  
16 Holden, members of the Committee on Hospitals and the  
17 Committee on Technology. I am Kevin Lynch, senior  
18 vice president and chief information officer of New  
19 York City Health and Hospitals. I'm joined by Dr.  
20 Michael Bouton, our chief medical information  
21 officer. He is also an emergency room doctor at  
22 Harlem Hospital, along with Chris Rocher, our chief  
23 executive officer at Queens Hospital Center. Thank  
24 you for the opportunity to update you on Health and  
25 Hospitals' implementation of its electronic health

3 record system, or EHR. To clarify, an electronic  
4 health record system, EHR, is a tool that is used in  
5 every hospital or clinic to document clinical care.  
6 We all use some form of EHR in our own patient care.  
7 We call to schedule a doctor's appointment. We're  
8 registered when we arrive. The nurse will document  
9 our height, our weight, our medications, along with  
10 the reason we are there for the visit. The doctor  
11 will also document findings and may order tests, such  
12 as labs, radiology, or may order a process. We have  
13 all experienced emergency department visit. All  
14 these components, scheduling, registration, clinical  
15 documentation, orders, results, along with the other  
16 modules like emergency department, operating room,  
17 cardiology, lab, radiology, pharmacy, medical records  
18 and coding, and patient accounting all make up the  
19 collective EHR. Health and Hospitals has evolved  
20 over the last several decades using individual clinic  
21 systems at each of their 11 acute hospitals. That  
22 means that patient Kevin Lynch could go to Jacobi,  
23 then go to Harlem, then to Bellevue, and the provider  
24 treating Kevin Lynch at Bellevue would not have  
25 access to the patient records at either Jacobi or  
Harlem. Fast forward to today, where we have 10 of

3 our 11 acute care centers and 47 of 56 Gotham  
4 Ambulatory Care locations live on an Enterprise  
5 electronic health record system. Now when patient  
6 Kevin Lynch goes to Jacobi or Harlem or Bellevue or  
7 Coney Island, or any of the other patient care  
8 locations, the providers treating patient Kevin Lynch  
9 will have access to the complete patient record. And  
10 in 16 days all of our acute and Gotham Ambulatory  
11 Care Centers will be on the Enterprise electronic  
12 health record systems that we have named H2O. And  
13 that stands for Health and Hospitals Online.  
14 Currently we have over 45,000 users, 4.8 million  
15 unique registered patients. We have trained over  
16 54,700 people with over 97,000 courses completed.  
17 Our revenue cycle has improved significantly over,  
18 ah, with over an increase of 20% charge capture and  
19 55 million dollars cash collection cumulatively for  
20 our October 2018 Go Light sites that include  
21 Woodhull, Coney Island, Elmhurst, and Queens, plus  
22 the 27 Gotham Ambulatory sites. We have had an  
23 increase of 29% charge capture and 25 million dollars  
24 collectively for our March 2019 Go Light sites that  
25 include Bellevue, Harlem, and 18 Gotham Ambulatory  
sites, and an increase of 20% charge capture for our

3 July 2019 Go Light sites, including Metropolitan,  
4 Jacobi, Lincoln, and North Central Bronx. In early  
5 2013 Health and Hospitals contracted with EPIC as our  
6 Enterprise electronic health record system. With the  
7 intention of deploying across all acute Gotham  
8 Ambulatory along with post-acute care locations, the  
9 budgeted amount was 764 million dollars. The project  
10 was initiated with the intent of implementing a  
11 standard Enterprise EHR throughout Health and  
12 Hospitals for clinical care and documentation.  
13 Soarian would be used for revenue cycle, which  
14 includes registration, medical records, and patient  
15 accounting. And this would be interfaced to EPIC.  
16 The timeline for completion was December 2018. In  
17 2016 the first facilities to go live, Queens and  
18 Elmhurst, had challenges with the training and the  
19 adoption along with the revenue cycle clinical  
20 interface. In 2017, after the third facility that  
21 went live, Coney Island, with the Enterprise Clinical  
22 Instance interface to Soarian for revenue cycle it  
23 was decided to utilize EPIC for both clinical and  
24 revenue cycle, which added 289 million dollars to the  
25 project, which now totals 1.05 billion and extended  
the project timeline to late 2020. In 2018 we

3 accelerated the implementation timeline to be  
4 completed at acute Gotham sites by calendar year  
5 2019. We also decided to utilize separate EHRs for  
6 both post-acute care and correctional health. Based  
7 upon the immediate need to get off legacy clinical  
8 products, our current version of EPIC at the time was  
9 not a mature model for either post-acute care or  
10 correctional health services. Both post-acute care  
11 and correctional health have successfully implemented  
12 their systems over the summer and fall of 2019. We  
13 allow appropriate access to the clinical data with  
14 the intent to integrate data using industry-standard  
15 tools, including interfaces, sharing data through  
16 standard formats, along with other integration  
17 platforms, such as EPIC Care Everywhere, EPIC Care  
18 Quality, EPIC Care Link, and EPIC Care Connect.  
19 Along with the health information exchanges, such as  
20 New York Care Information Gateway, or NYCIG, and  
21 Healthix. EPIC Care Everywhere, which provides the  
22 ability to share individual patient information with  
23 their consent when they are seen at other EPIC  
24 facilities. EPIC Care Quality is a platform to share  
25 patient healthcare information with their consent to  
non-EPIC sites. And EPIC Care Link supports external

2 providers to securely log on to Health and Hospitals  
3 instance of EPIC to place referrals for their  
4 patients who are currently being treated at Health  
5 and Hospitals facilities. EPIC Care Connect will  
6 allow the extension of our Health and Hospitals EPIC  
7 Instance to external providers. Some featured  
8 benefits and new functionality of H2O, our EPIC EHR,  
9 for patient and provider partnership focus include  
10 H2O offers a single patient record across all of our  
11 facilities. H2O provides alerts for providers when  
12 similar or contraindicated medication is being  
13 ordered. H2O reduces unnecessary tests and  
14 procedures. My Chart is our patient portal that  
15 allows patients to access personal information from  
16 computer, tablet or smart phone to view test results,  
17 communicate directly and securely to their health  
18 care provider, request prescriptions refills, make  
19 and reschedule reappointments, appointments. It also  
20 improves health and quality and safety throughout an  
21 early alert system, which notifies providers of  
22 patients who potentially have sepsis and guides towards  
23 evidenced-based treatment protocols. It also has bar  
24 code medication administration across our inpatient  
25 care environment and it ensures the right medication

3 gets to the right patient at the right time with the  
4 right dose. It alerts to remind providers of the  
5 appropriate screenings, immunizations, or infection  
6 prevention protocol to follow. Some improvements for  
7 data governance and reporting along with analysis,  
8 H2O supports a single source of truth for clinical  
9 and revenue cycle data. It uses industry-standard  
10 Enterprise operational, clinical, revenue, and  
11 regulatory reports with the ability to develop and  
12 maintain Health and Hospitals specific reports as  
13 needed. With privacy and security we abide by,  
14 Health and Hospitals maintains HIPAA, which is Health  
15 Insurance Portability and Accountability Act of 1996  
16 compliance. To share patient healthcare data, the  
17 patient must opt in and consent to sharing of their  
18 data, or there must be a legal exception for which  
19 the sharing of the data is authorized. H2O reports a  
20 detailed record of access to any sensitive data.  
21 Health and Hospitals maintains the security measures  
22 to protect our data in use, in transit, and in  
23 storage. This supports confidentiality, data  
24 integrity, and the appropriate availability of that  
25 data. The foundation of our IT security program is  
built upon NIST Cybersecurity Framework. Our

3 information secondary policies and standards are  
4 aligned with HIPAA operating process and direct the  
5 implementation of our security controls across our  
6 enterprise. Our risk management program conducts  
7 ongoing assessments, including compliance, counsel,  
8 supply chain, and independent expert vendor to  
9 conduct risk assessments and network penetration  
10 testing. Information security and awareness work  
11 force training is required annually and is  
12 supplemented with monthly newsletters, screensavers,  
13 and quarterly phishing exercises that reinforces  
14 security best practices. H&H has implemented a  
15 layered security platform, including intrusion  
16 prevention systems and industry-standard anti-virus  
17 tools that protect our circuits, switches, servers,  
18 and end-point devices. We encrypt all end-point  
19 devices, including hard drives, USB devices, and  
20 secure our mobile devices. We access H2O from a  
21 virtual desktop to ensure that electronic-protected  
22 health information will not be exposed to a local PC.  
23 Some of the new IT infrastructure and technical  
24 devices for this project have been IT's  
25 infrastructures, logistics address data center  
refresh, our wide-area network circuits, new network

3 cabling for required devices, including work  
4 stations, Wi-Fi, computers on wheels, patient-facing  
5 kiosks, laboratory label printers, facility-based  
6 network closets, construction need for power and  
7 cooling, and we consolidated a number of network  
8 printers and the need to print physical paper. New  
9 operational devices with standard workflows were  
10 implemented to support patient registration. Best  
11 practices included cameras to take and link the  
12 patient photo to their health record for patient  
13 safety, e-signature pads to capture the consents and  
14 link them to the patient's health record, bar code  
15 label printers to replace embossed cards for patient  
16 identification, and document scanners to link  
17 insurance card and ID and additional pertinent  
18 patient documentation to the patient record. We also  
19 included credit card swipe machines to collect co-  
20 payments at the registration desk. Our future path  
21 and next steps, our Enterprise health record system  
22 serves as a foundational tool to drive Enterprise  
23 standard integrated health system. We support and  
24 align our strategic health systems prioritize  
25 initiatives. We provide ongoing sustainable training  
and development to our staff. We augment and

3 optimize functionality based on clinical councils and  
4 operational business owners direction and we leverage  
5 the EPIC community industry-standard best practice.

6 Thank you for allowing me to testify before you  
7 today, and we look forward to taking your questions.

8 CHAIRPERSON RIVERA: Thank you. Thank  
9 you for your testimony. I think we can agree, based  
10 on, and I know that the people here can't see this,  
11 but previously the old system was very disorganized,  
12 I guess is the word. It just didn't talk to each  
13 other and we all know that a lack of streamlined  
14 technology is just really a disservice, especially in  
15 the 21st century. With that being said, I want to  
16 ask a few questions about EPIC specifically and about  
17 some of the issues and information that is listed in  
18 your testimony, that I want to make sure we're on the  
19 record as fully understanding, and I guess we will  
20 start with the status of the EPIC rollout. I saw  
21 some issues that were being had with implementation  
22 and I'll ask about training in a few minutes. But  
23 what is the status of the EPIC rollout in terms of  
24 timeline, and I would also like if you can touch on  
25 the total price tag. I saw something in there on one  
point, ah, over a billion dollars, and so I just want

2 to make sure we get some of those facts and figures  
3 on the record.

4 KEVIN LYNCH: Thank you for that  
5 question, Council Member.

6 CHAIRPERSON RIVERA: Yep.

7 KEVIN LYNCH: Yes, our project is on time  
8 and on budget. We are, in 16 days we will be going  
9 live with Kings County and the affiliated Gotham and  
10 ambulatory clinics, and that will conclude our, our  
11 Enterprise implementation of H2O, or EPIC, across our  
12 acute and ambulatory locations. The 1.05 billion  
13 dollar was the amount that we budgeted and we are on  
14 track to keep that budget through the implementation.

15 CHAIRPERSON RIVERA: So you're on track  
16 to stay within the budget itself, you haven't gone  
17 over? I mean, initially you had, but.

18 KEVIN LYNCH: Yes, that is correct.

19 CHAIRPERSON RIVERA: So in 16 days when  
20 this last kind of facility is brought into the fold  
21 you will be fully on and operational technology-wise?

22 KEVIN LYNCH: Yes, and clinically.

23 CHAIRPERSON RIVERA: And clinically?  
24  
25

3 KEVIN LYNCH: On the same Enterprise  
4 electronic health record system on all 11 acute care  
5 centers, plus all the 56 Gotham ambulatory clinics.

6 CHAIRPERSON RIVERA: And the trainings,  
7 how are the trainings conducted, how long are they,  
8 who is trained and by whom, and has everyone been  
9 trained that you assume would have access to the  
10 system?

11 KEVIN LYNCH: Thank you. We have, we  
12 have a very strong training program. We have trained  
13 over 90, I'm sorry, 54,000 of our employees to date.  
14 We, we require training to have access to the system.  
15 So in this, we've been training for the last six  
16 weeks prior to every go live. We train each one of  
17 our clinicians and providers and anybody who uses the  
18 system has to go through a, a training that may last,  
19 depending on their role, of a half a day, or some of  
20 the roles require a couple of days of training. They  
21 have to prove competency, and if they have some  
22 difficulty with their training we have refresher  
23 classes or we're able to help them come up to speed  
24 with their competency in these training efforts.

25 CHAIRPERSON RIVERA: So you've trained  
54,000 people so far?

3 KEVIN LYNCH: Across all of our, ah,  
4 entities.

5 CHAIRPERSON RIVERA: And how many more  
6 are to be trained? And how many people are in the  
7 system are employees of Health and Hospitals?

8 KEVIN LYNCH: So that was a great  
9 question again. The amount of people who have been  
10 trained equal the amount of people who have been  
11 accessing the application. So every one of our at  
12 Queens and Elmhurst, Woodhull, Coney Island, ah, and  
13 Kings County, all of the, of our end users must  
14 complete training prior to the end user. So we've  
15 counted 54,000 of our folks who are unique users  
16 today. Once Kings County goes live we'll probably  
17 add another, you know, six to eight thousand new  
18 users to the S.

19 CHAIRPERSON RIVERA: So one of the  
20 concerns, and I have to, I know we're going to hear  
21 from her later, but we have a doctor here who is  
22 going to speak to her experiences. She flew in from  
23 Texas. So I encourage you stay and listen to that  
24 testimony, at the very least. The concern is that,  
25 um, does the training include a component about using  
the system while in the room with a patient, right?

3 Because there's screen time and you want to make  
4 you're interacting with the patient and they're not  
5 glued to the computer.

6 KEVIN LYNCH: Yeah, um, nationally  
7 there's a difference by specialty and your practice  
8 environment, but about 50% of provider time is spent  
9 documenting. That's, that's a problem. Our notes in  
10 the United States are about three times longer than  
11 equivalent notes in Europe. That's a problem. While  
12 we're not immune to those challenges here at H&H, we  
13 really are committed to providing the most time  
14 possible to our patients, to our providers to have  
15 direct contact with their patients. So I can tell  
16 that our notes on average are actually shorter than  
17 EPIC notes in general. Our providers take less time  
18 in their notes than other systems. Now, if I come to  
19 you a year from now I hope to day that we've cut that  
20 down even further. We take this very seriously. We  
21 do everything we can to foster that doctor-patient,  
22 nurse-patient interaction. But it is a national  
23 problem.

24 CHAIRPERSON RIVERA: And I want to thank  
25 you, because you gave us an excellent presentation at  
Coney Island Hospital, and Council Member Treyger was

3 very hospitable. And I know you had come from  
4 Harlem. It is a, it is a big system. It's kind of a  
5 monster of a system. It reminds me of like Sales  
6 Force, like it could, it could do the things that you  
7 want it to do if you know how to use the parts of it  
8 that could really benefit the patient and benefit the  
9 doctor. And, you know, some people are concerned  
10 that, well H&H clearly financially we're all, we're  
11 all expecting H&H to do better financially and I know  
12 that you're on your way to doing much better  
13 financially, and that's important to everyone,  
14 including some of the hospitals who aren't always  
15 here to testify, and I thank you for always being  
16 present and giving testimony. But some are concerned  
17 that the system itself is, is really to ensure  
18 billing and, and coding, and I know that might not be  
19 a fair comment for you as someone who is devoted to  
20 his practice, but how can EPIC help improve the  
21 quality of care at H&H?

22 UNIDENTIFIED: It's a great question,  
23 thank you for that. So in my workflow as an  
24 emergency medicine doctor I constantly get alerts.  
25 You know, in our old system I would get alerts that  
were kind of general and what we're able to do in

3 EPIC is tailor it a little bit more specifically.

4 I'll give you an example. Ah, ibuprofen, every time  
5 I, and this is a couple years ago, every time I'd  
6 prescribe ibuprofen it would tell me, thanks, yeah.

7 All right, can you hear me now? Great. Every time I  
8 would prescribe ibuprofen it would tell me that it  
9 was nephrotoxic, meaning it was potentially damaging

10 to the kidneys. Myself and a number of my

11 colleagues, you know, we spent about a decade

12 training for this, we all know the side effects of

13 ibuprofen, and it's not really useful if you tell me

14 that every single time. Where it is useful is I can

15 look at what the patient's kidney function or what

16 their diagnoses were and if it's, and if in this

17 situation ibuprofen might be specifically dangerous.

18 And that's the kind of thing that we're able to do

19 with EPIC that we were not able to do before, is

20 tailor our alerts to give the doctor and the nurse

21 the right information for the right patient at the

22 right time.

23 CHAIRPERSON RIVERA: So it's a, you're

24 saying one of the biggest benefits of the system, and

25 we've just been joined by Council Member Mark Levine,

3 thank you very much. Um, the benefit is just having  
4 the, the history?

5 UNIDENTIFIED: The history, a better means  
6 of providing alerts, a better means of providing  
7 alerts, but then the advantages, Kevin mentioned this  
8 earlier, I can, if I'm practicing at Harlem I can see  
9 the patient record from Bellevue, which is wonderful.  
10 I'll share with you a story that, Chair Rivera, I  
11 think I shared with you previously. But I was  
12 working in the emergency department at Harlem and I  
13 had a, I had a young child arrive in my emergency  
14 department and he was very sick. His oxygen sats  
15 were low, they were like 85%. And I went to, I went  
16 into EPIC and I saw that this child had been seen at  
17 another New York City institution that is not part of  
18 New York City Health and Hospitals, and I got the  
19 mother's consent. I went into the record and I got  
20 critical information on that patient that changed my  
21 care of this child. It led me actually to not  
22 intubate, or put a breathing tube down, that I might  
23 have done otherwise, and that would have been a very  
24 dangerous procedure for that child, and so I have,  
25 you know, more stories than I can count of very  
similar instances. So while I acknowledge that EPIC

3 has helped us financially, I certainly do think it's  
4 helped us from a quality perspective also.

5 CHAIRPERSON RIVERA: Are you tracking  
6 patient saturations.

7 UNIDENTIFIED: We are tracking, yes.

8 UNIDENTIFIED: So, yes, the answer is yes.  
9 So we are tracking it through [Preskini] and we use  
10 those scores to make ourselves more efficient, make  
11 sure that we're putting the patient in the center of  
12 everything that we're doing. Our decisions, our  
13 focus, and our operations.

14 CHAIRPERSON RIVERA: We've a council of  
15 providers, especially generalists who are struggling  
16 to meet the demands of EHRs while providing quality  
17 care. How is H&H meeting the needs of direct care  
18 staff as they utilize EPIC?

19 KEVIN LYNCH: You know, we talked about  
20 the initial training, which is important, but then  
21 there's ongoing training after that and that can  
22 involve retraining of providers or nursing staff that  
23 would like that. But it also involves one-on-one  
24 sessions to get them up to speed with what's the,  
25 what's actually available to help speed their  
workflows, and then there's kind of, there's a

3 concept of personalization, which is tailoring EPIC  
4 to your individual workflows, and this has been one  
5 of the highest, ah, it is highly correlated with  
6 physician satisfaction, and we offer that. So we do  
7 take this very seriously. We do want to make  
8 providers and nurses, their experience of EPIC as  
9 positive as possible.

10 CHAIRPERSON RIVERA: And how long does it  
11 typically take someone to really grasp the system,  
12 and what is your plan for like ongoing professional  
13 development?

14 KEVIN LYNCH: Yeah, great, great  
15 question. I will share with you my personal  
16 experience here. After my first shift I, you know, I  
17 was up to speed and I think I was as fast as  
18 previously. Within two weeks we become operationally  
19 as efficient as before. And I will say, what I was  
20 mentioning before around our ongoing training, we  
21 have credentialed trainers at all the institutions  
22 that do this ongoing training to get the providers,  
23 nursing, and other staff the know-how that they need  
24 to get to through their workflow as quickly as  
25 possible. At the end of the day what is important is

3 not documenting, it's the direct care of the patient  
4 and we try to ease that burden as much as possible.

5 UNIDENTIFIED: I would add to that, that  
6 during our, during the go live that we're about to,  
7 in 16 days at Kings County, we have a, a  
8 stabilization time period where we, we have a number  
9 of what we call at-the-elbow support folks that we,  
10 we have commandeered from our previous go live sites  
11 who have experience to help the, the Kings County in  
12 their go live effort. So we do have a stabilization  
13 time period where we have, during that go live we  
14 train them for the, you know, the several weeks  
15 before the go live. During the go live, during the  
16 first two weeks we'll have extra help at each one of  
17 the nursing stations and each one of the clinical  
18 care areas to help the folks acclimating the first  
19 several days and weeks.

20 CHAIRPERSON RIVERA: For those two weeks,  
21 who are, who are the people there to assist your  
22 staff?

23 KEVIN LYNCH: So it's a combination of  
24 professional services, staff that know EPIC that,  
25 that we have used in the past in other locations, and  
for this particular go live we're using a number of

3 our own resources, we're calling it Pay It Forward,  
4 Pay It Back. For instance, staff members from Queens  
5 and Elmhurst and Coney Island and Woodhull and  
6 Bellevue are all helping out with this stabilization  
7 effort while we're going live at Kings County.

8 UNIDENTIFIED: So think of it as, think of  
9 it as layered services, right? So we have certified  
10 people who are at our hospitals that are at the elbow  
11 helping our doctors, our nurses, and then we have  
12 super-new users that are doctors, nurses, they're not  
13 certified but they're super users. They feel good  
14 about the system, they can help their teammates and  
15 so those are the people who are actually going, well,  
16 to Kings County this go-round.

17 CHAIRPERSON RIVERA: OK, and last follow-  
18 up before I turn it over to Chair Holden. How do you  
19 become a super user? Is how much time you spend in  
20 the system? Is it because maybe a supervisor or  
21 someone who is directly involved with the  
22 implementation of EPIC has some sort of critical?

23 UNIDENTIFIED: So the super users  
24 themselves, those are people who are not certified,  
25 but those are doctors who, that feel very comfortable  
with the system, can offer help to doctors, nurses,

3 front-line staff. So they're, they're a part of the  
4 system, part of the hospital in the operations.

5 CHAIRPERSON RIVERA: And again, I just  
6 want to make sure that, that I heard we're, we are  
7 tracking patient satisfaction with their physicians  
8 and those interactions, correct?

9 UNIDENTIFIED: Yes.

10 CHAIRPERSON RIVERA: OK. We've been  
11 joined by Council Member Diana Ayala. And I want to  
12 turn it over Chair Holden, who certainly has a few  
13 questions.

14 CHAIRPERSON HOLDEN: Thank you, Chair  
15 Rivera. Just a follow-up on the chair's question,  
16 are doctors required to take training?

17 KEVIN LYNCH: Yes, all doctors are  
18 required. To get access to EPIC you need to go  
19 through training for EPIC.

20 CHAIRPERSON HOLDEN: Is there any  
21 pushback from some doctors to say this training is  
22 taking too long, because I can see their schedules  
23 and they would object to any new system that's rolled  
24 out, and we had one at CUNY when I was there. It was  
25 tremendous pushback.

KEVIN LYNCH: Yeah.

2 CHAIRPERSON HOLDEN: And it was also well  
3 over a billion-dollar software.

4 KEVIN LYNCH: Overall, I'd say training  
5 has been very well accepted. If your question is  
6 specifically has there been a few doctors who have  
7 pushed back on the length of training, the answer to  
8 that question would also be yes.

9 CHAIRPERSON HOLDEN: So what happens if  
10 they are deemed not proficient after the training?

11 KEVIN LYNCH: We have a system of getting  
12 one-on-one support to those doctors and then getting  
13 them retrained and retested to attest that they are  
14 functional to use the system?

15 CHAIRPERSON HOLDEN: And it's working?

16 KEVIN LYNCH: Yes.

17 CHAIRPERSON HOLDEN: OK, so far, all  
18 right. I have some technical questions on, you know,  
19 technology. Does the implementation process of EPIC  
20 address the following - EPHI encryption?

21 KEVIN LYNCH: Yes, we encrypt the, the  
22 data and we encrypt our devices also that are using.

23 CHAIRPERSON HOLDEN: So if somebody has,  
24 let's say somebody has a laptop and they open it, and  
25

2 it's theirs, it will be protected if the device is  
3 stolen?

4 KEVIN LYNCH: Yes, we have, well, there's  
5 two layers to this. First of all, EPIC is presented  
6 in what's called a virtual desktop. So no, no data  
7 is actually reaching to the end point or the laptop  
8 or, in this, in this case. They're accessing EPIC.  
9 Access to EPIC is through what's called virtual  
10 desktop integration, VDI.

11 CHAIRPERSON HOLDEN: Or a mainframe or  
12 something like that's connected?

13 KEVIN LYNCH: Yes, so it's a, when they  
14 make the connection and have their session within  
15 EPIC and then discontinue there's nothing left on the  
16 end point device.

17 CHAIRPERSON HOLDEN: Is it, go ahead.

18 KEVIN LYNCH: In addition, the devices  
19 are, all of our devices, desktops, carts, which are  
20 the carts on the wheels, laptops on, on wheels, and  
21 laptops are all individually encrypted also, for  
22 their hard drives.

23 CHAIRPERSON HOLDEN: Is there an auditing  
24 function on EPIC?

2 KEVIN LYNCH: We do have an auditing  
3 function that tells how many users are in place, and  
4 they go down to the level of what data is being  
5 viewed by each one of the users.

6 CHAIRPERSON HOLDEN: Where is the  
7 information stored? Is it on the cloud?

8 KEVIN LYNCH: It is not on the cloud.

9 CHAIRPERSON HOLDEN: OK.

10 KEVIN LYNCH: We contain it through our  
11 data centers. There's a diagram, I think it's number  
12 five in your, in your, in the middle. There's two  
13 data centers, one at Jacobi and one at Sungard, and  
14 we host active-active instances of H2O or EPIC within  
15 our own, um, data centers and, and share it with a  
16 fiber network and then, ah, to all of our patient  
17 care locations.

18 CHAIRPERSON HOLDEN: Do the hospitals use  
19 Amazon Comprehend medical software?

20 KEVIN LYNCH: No we do not.

21 CHAIRPERSON HOLDEN: OK. You know, in  
22 April of last year H&H notified 595 patients of a  
23 missing laptop with their protected health  
24 information, including their names, medical  
25 resources, numbers, date of birth, hearing test,

3 whether a hearing test was passed. It appeared that  
4 a locked laptop was missing from the facility since  
5 January of 2018. Do you have any information on to  
6 how this incident occurred?

7 KEVIN LYNCH: I do not have, that device  
8 did turn up missing in an inventory, so that has also  
9 led to the implementation of our encryption of every  
10 single end-point device going forward.

11 CHAIRPERSON HOLDEN: According to HIPAA,  
12 patients have the right to access, correct, and  
13 sometimes eliminate information. What is the process  
14 for that.

15 UNIDENTIFIED: So we are actually a leader  
16 in this space and we, through My Chart, our patient  
17 portal where a patient can go on and look at their  
18 patient information, we provide access to our notes.  
19 So if they do recognize an error they would go to  
20 their provider and ask this to be corrected. You  
21 could also go to our HIM department, or health  
22 information management.

23 CHAIRPERSON HOLDEN: What number should  
24 they call if they want to access?

25 UNIDENTIFIED: It would be their actual  
facility at which they're being taken care of.

2 CHAIRPERSON HOLDEN: To have the access,  
3 OK, all right.

4 UNIDENTIFIED: Yeah, so they would  
5 actually come to the location...

6 CHAIRPERSON HOLDEN: They have to go.

7 UNIDENTIFIED: Go to HIM department.  
8 There would be a form to fill out and that's how that  
9 would happen.

10 CHAIRPERSON HOLDEN: All right, so  
11 there's a process, and they submit it and how, what's  
12 the follow-up on that? How long does it take, or?

13 UNIDENTIFIED: So I don't know how long it  
14 would take, um, it's a back-and-forth with the  
15 doctor, the patient, HIM director, um, it could take  
16 two weeks to four weeks.

17 CHAIRPERSON HOLDEN: So they shouldn't  
18 notify their doctor, they should just go?

19 UNIDENTIFIED: I mean, they can have a  
20 conversation with their doctor, but what, what has to  
21 happen, they have to go through HIM.

22 CHAIRPERSON HOLDEN: Have you heard about  
23 Google Nightingale Project?

24 UNIDENTIFIED: Yes, we have.  
25

3 CHAIRPERSON HOLDEN: And? Does any New  
4 York City hospitals work with Ascension?

5 UNIDENTIFIED: No, we do not.

6 CHAIRPERSON HOLDEN: OK. OK, Chair  
7 Rivera, I think that's it for me. Thank you.

8 CHAIRPERSON RIVERA: I wanted to ask  
9 about Chair Holden asked about the physicians and how  
10 you track physician feedback. How has that been  
11 going?

12 UNIDENTIFIED: So we, we have not  
13 performed a formal survey to look at how physicians  
14 are responding to the system at this juncture. We  
15 have committees in every single hospital that focuses  
16 on this, that feed up to our central offices, where  
17 we address concerns and optimizations.

18 CHAIRPERSON RIVERA: I'm sorry, can you  
19 talk a little bit more about it, about how?

20 UNIDENTIFIED: There's a, yeah, if there's  
21 a concern with the record at, about how EPIC is  
22 functioning at this point. You're a provider at  
23 Bellevue. You would bring it to, you would bring  
24 that concern to the Bellevue leadership, who would  
25 then try to get the person trained to use the system  
appropriately, and if we've figured that they're, and

3 if they identify something that should, can be  
4 corrected, we correct it system-wide. We correct  
5 system-wide for all of the facilities so they can all  
6 benefit from that.

7 CHAIRPERSON RIVERA: So how often have  
8 those improvements been happening since you first  
9 launched it?

10 UNIDENTIFIED: We make constant  
11 improvements to the system and I anticipate us making  
12 constant improvements to the system for the next many  
13 years. I think we are a learning health system and  
14 that's part of our commitment to this.

15 CHAIRPERSON RIVERA: Because in your  
16 testimony you say we strive to free physicians from  
17 the EHR to spend more time in direct, uninterrupted  
18 contact with their patients and we have significant  
19 work to do in this space.

20 UNIDENTIFIED: Yup.

21 CHAIRPERSON RIVERA: So since you are  
22 constantly trying to improve the system, roughly what  
23 would you say were some of the biggest complaints,  
24 the biggest issues, roughly how many times have you  
25 made improvements, fully understanding that this is a  
work in progress and you want it to be the best?

3 KEVIN LYNCH: So I'd say that the, you  
4 know, if you look at how we've evolved from 11  
5 different independent clinical systems to one  
6 Enterprise system, just the logistics of getting  
7 everybody to, changes that were made at Queens  
8 Hospital affect Harlem and Bellevue. So getting the  
9 clinical councils together to work as an enterprise,  
10 that's, that's the work that faces us in the next  
11 year. Dr. Bouton mentioned many different  
12 optimizations that come through these clinical  
13 councils and decided and prioritized to ensure which  
14 ones are the most important, which ones we should and  
15 how we will implement those optimizations. We also  
16 have to balance that with our go live schedule that  
17 is in flight.

18 CHAIRPERSON RIVERA: Understood. I  
19 realize it's going to be a work in progress.  
20 Understanding that technology is ever-changing, do  
21 you think that based on the 15-year contract with  
22 EPIC that in 15 years that this will be technology-  
23 wise up to standard? Will it be still trending?  
24 Will it be relevant?

25 KEVIN LYNCH: That's a great question,  
Council Member. I would say technically it, I would

3 say and that's probably the easier part of this,  
4 technically we will have a, an industry-standard best  
5 practices class voted electronic health record system  
6 using EPIC deployed across all our, all of our  
7 locations. Technically that will be, we will be at a  
8 very high level. Clinically, we are making great  
9 strides and I'd lend to Dr. Bouton for his  
10 perspective.

11 DR. BOUTON: Clinically, we've already  
12 seen great improvement with the electronic medical  
13 record. You know, EPIC, the question is specifically  
14 about EPIC as a product and where we're going to be  
15 at 15 years at the end of the contract. When you  
16 look at the 10 top health systems in this country,  
17 and they all use EPIC at this juncture, and I said  
18 we're part of a learning environment. We learn from  
19 them, those 10 health systems as well.

20 CHAIRPERSON RIVERA: I realize they have  
21 a large market and I think some would call it a  
22 monopoly, but I realize it speaks to their  
23 reputation. I wanted to ask, in my testimony, I mean  
24 my opening statement, I mentioned how over half of  
25 the respondents in the Kaiser Family Foundation's  
report, they said they were very concerned and had

3 actually noticed some errors in their personal health  
4 in their record. However, you said that it actually  
5 supports the hospital's ability to prevent medical  
6 errors. So can you speak to how EPIC has been  
7 successfully in kind of rebutting what I think many,  
8 the public's perception? And, really quickly, we  
9 have been joined by Council Member Francisco Moya.

10 DR. BOUTON: So areas where we've  
11 specifically shown benefit, we mentioned sepsis in  
12 our testimony. Today we have, if a patient shows up  
13 to the emergency department we have a means of  
14 flagging patients at risk for the serious and life-  
15 threatening condition and directing the physician, or  
16 suggesting to the physician what would be the best  
17 practice for this patient. Now it's ultimately the  
18 physician's decision on what to do, but we suggest to  
19 them the Enterprise standard and national standard  
20 best practices on what to do. And this is, I think  
21 this is hugely beneficial. It makes the physician's  
22 life easier. It allows speed of care and it  
23 ultimately will improve patient outcomes, which is  
24 our, I mean, patient-centered outcomes is what we  
25 ultimately care about.

2 CHAIRPERSON RIVERA: Do you know how many  
3 FQHCs and providers use EPIC in the city, by any  
4 chance?

5 KEVIN LYNCH: Unfortunately we don't have  
6 that exact answer. We could come back to the council  
7 with that after discovery.

8 CHAIRPERSON RIVERA: And what I'm asking  
9 is whether any FQHC can access patient information  
10 from H&H systems?

11 KEVIN LYNCH: Got it, yeah. So there's a  
12 variety of mechanisms...

13 CHAIRPERSON RIVERA: And even if they  
14 don't use EPIC.

15 KEVIN LYNCH: Right, yeah, yeah, there's  
16 a variety of mechanisms. So we talked about Care  
17 Everywhere. If you do use EPIC we can share data.  
18 We've also signed up for the Care Quality, which is a  
19 national framework for sharing data across, across  
20 electronic medical records, regardless of who the  
21 vendor is in that space. And I'd also bring up here  
22 our regional health information organization, or  
23 RHIO. Anybody who participates in that we'll be able  
24 to share data with. So if an FQHC is part of the  
25 RHIO we will certainly be able to, and even if

2 they're not part of our individual regional health  
3 information exchange organization, there's an other  
4 statewide agency called the SHINY, or Statewide  
5 Information Registry, where they all, where they all  
6 share the data. So the vision of sharing data across  
7 practices regardless of state, regardless of  
8 electronic medical vendor, is something that we're  
9 deeply committed to and have taken many steps  
10 towards.

11 CHAIRPERSON RIVERA: So eventually they  
12 will be able to talk to each other, or can they talk  
13 to each other now?

14 KEVIN LYNCH: I'd have to look at the  
15 particular case, but we do provide the ability for  
16 them to all talk to each other, and then there's also  
17 something called EPIC Care Link, and I'm sorry for  
18 all the jargon here.

19 CHAIRPERSON RIVERA: I'm writing it all  
20 down.

21 KEVIN LYNCH: Yeah, yeah, but this allows  
22 people that are not physically part of H&H, but if  
23 they have a relationship with us to actually get  
24 access to our record, if we share patients in common.

3 CHAIRPERSON RIVERA: I mean, it's  
4 important, right? We want a patient's experience to  
5 be as seamless as possible, considering they're  
6 dealing with such a sensitive moment, regardless of  
7 even if it's just a general checkup. And so we want  
8 different centers and however small or large your  
9 corporation may be, we'd love if they were talking to  
10 each other. It does, it does leave the question of  
11 the security that Chair Holden brought up, and I know  
12 that we mentioned Nightingale, which will probably at  
13 some point get its own Congressional hearing, but  
14 that's not why we're here, and that's being run with  
15 the major US hospital network, Ascension, to help  
16 analyze data from their EMR resources to identify  
17 macro healthcare solutions at their hospitals, and of  
18 course people are concerned that Google could use  
19 this data for marketing in the rest of its system,  
20 right? This is a big, big concern, and as was  
21 mentioned health data is probably the number one pool  
22 of information that people look to hack. So is H&H  
23 working with or planning to work with any third  
24 parties to conduct EHR data analysis?

25 KEVIN LYNCH: We do not, we do  
participate in certain third-party elements. Each

3 one of those has to go through an extensive security  
4 and privacy review from our, and sign business  
5 associate agreements. We are very, we guard our  
6 patient health information very seriously. So, ah,  
7 if there's ever any hint of nefarious use we will, we  
8 will not participate in that. We do have, um,  
9 healthcare, our health plans that we have to share  
10 data with for payments and other related elements.  
11 Any third-party elements that we do share has to go  
12 through a significant and detailed security and  
13 privacy review.

14 CHAIRPERSON RIVERA: Do trainings include  
15 a data security component to it?

16 UNIDENTIFIED: We have general trainings  
17 that go over data privacy and security.

18 CHAIRPERSON RIVERA: And so just to  
19 confirm, you did mention a couple of partnerships  
20 that you have. Can you outline some of those  
21 partnerships? I wasn't quite clear.

22 KEVIN LYNCH: Some of the health plans  
23 that we share contracts with to provide care and get  
24 payments for them, we have to share appropriate  
25 billing information back and forth, for the, for  
those covered patients and the payment back to them,

2 so that's an example of a third party that we partner  
3 with.

4 CHAIRPERSON HOLDEN: Just to follow up on  
5 that, so you share the data with insurance companies,  
6 obviously. But what other entities other than  
7 billing or?

8 KEVIN LYNCH: It's limited to, it's  
9 limited to, ah, you know, anything that is direct  
10 patient care treatment and billing.

11 CHAIRPERSON HOLDEN: Can you give me an  
12 example?

13 KEVIN LYNCH: Um, well, we have EPIC, ah,  
14 we interface to Cerner for our laboratory activities.  
15 So there's an actual HL-7 interface that travels  
16 information back and forth for, for a, our lab  
17 system, which is not part of the integrated EPIC  
18 system. So they're bound by all HIPAA and state and  
19 federal guidelines, and also data transit.

20 CHAIRPERSON HOLDEN: So the third parties  
21 are not, they can't share data for marketing purposes  
22 at all?

23 KEVIN LYNCH: That is correct.

2 CHAIRPERSON HOLDEN: OK. And we know  
3 that they don't, right? Even though they signed  
4 something?

5 KEVIN LYNCH: The business associate  
6 agreement ensures that they, any third party partner  
7 of ours is, is responsible for the security of that,  
8 ah, the data that is shared. And it is only, it is  
9 only to be used for the patient care.

10 CHAIRPERSON HOLDEN: OK. Thanks, chair.

11 CHAIRPERSON RIVERA: I'm thinking of  
12 whether the third-party system has like a cloud in  
13 the business aspect of that information and in terms  
14 of the number of companies that become involved with  
15 this data, we're really just trying to get on the  
16 record for how important it is for H&H to not only be  
17 transparent about its partner companies and about its  
18 affiliations and the reality of doing business, but  
19 to be very clear with us so we can relate to our  
20 patients that their security is safe. So I know that  
21 there is, that's why you have some help to make sure  
22 you can say things clearly. Would the cloud provider  
23 be a, be classified as a business associate and  
24 therefore have access to the data?

2 KEVIN LYNCH: So again any partner that  
3 we have as a third party has to go through a  
4 significant and stringent security and privacy rule,  
5 that, that, a review from our council and compliance  
6 and IT security teams. I'm not, which includes  
7 review of how their data is in transit and storage.  
8 So, ah, I'm not aware of any cloud-based elements  
9 that we're sharing data with. That has to be part of  
10 our security review. And we do take the, with great  
11 measures to protect our patient data.

12 CHAIRPERSON RIVERA: So let me ask it a  
13 different way. Are you working with any companies  
14 who do data analysis exclusively?

15 KEVIN LYNCH: No, we are not.

16 CHAIRPERSON RIVERA: OK. I wanted to  
17 make sure if my colleagues, if you have any  
18 questions.

19 COUNCIL MEMBER AYALA: My question is are  
20 you sharing this information with pharmaceuticals? Do  
21 they have access to this information?

22 KEVIN LYNCH: Could you repeat the  
23 question, please?

3 COUNCIL MEMBER AYALA: Do pharmaceutical  
4 companies have access to our medical records via this  
5 network?

6 KEVIN LYNCH: They don't have, the  
7 pharmaceutical companies do not have access to our,  
8 our clinical data. Or revenue cycle data.

9 COUNCIL MEMBER AYALA: Is there a way to  
10 be one hundred percent sure, by knowing exactly who  
11 you are partnering with organizationally. Is it, are  
12 you one hundred percent confident that you know  
13 exactly who they are doing business with and who  
14 they're able to potentially sell this data to?

15 KEVIN LYNCH: Again, we take great  
16 measures to protect our patient data and we feel  
17 confident that our business associate agreements, our  
18 security and privacy reviews, ah, protect our patient  
19 data in that same fashion.

20 CHAIRPERSON RIVERA: We're just  
21 concerned. I know there have been some security  
22 issues in the past and we want H&H to be successful.  
23 Please, please understand that. You're the most  
24 important, in my humble opinion, public health system  
25 in the country, and I want to make sure that we are  
being helpful, so we're asking you tough questions,

3 because sometimes we're not quite getting the answer,  
4 you know, so we have to ask you a different way, and  
5 I get that, and I know Chair Holden has another  
6 question.

7 CHAIRPERSON HOLDEN: Yes, thanks. Are  
8 there, in this contract with EPIC are there a number  
9 of, unlimited upgrades as we go through the years?

10 KEVIN LYNCH: It does cover the upgrades  
11 through the contract time period. Interestingly, we  
12 just completed successfully an upgrade to a platform  
13 version from last Thursday over the weekend. It's  
14 been very successful. We plan other upgrades on a  
15 timely fashion. I think our next upgrade is  
16 scheduled in November of 2020.

17 CHAIRPERSON HOLDEN: Has the company  
18 mentioned when you do an upgrade it might be drastic  
19 and needs more training? Are they, are they  
20 notifying you of that?

21 KEVIN LYNCH: It all depends on the scale  
22 of the upgrade, and I can't get into specifics  
23 because truly every upgrade would be different. As a  
24 general rule we do not require in-person again on a  
25 scale of one to two days. We would, we would do this  
through departmental meetings and have credentialed

3 trainers go to the providers, go to the nurses, go to  
4 those meetings and do it in that manner.

5 CHAIRPERSON HOLDEN: And have there been  
6 upgrades since the contract was signed?

7 KEVIN LYNCH: Yes, we just, we just  
8 finished one last week, which was a significant  
9 upgrade, which we, we accomplished with, and as you,  
10 as you outlined, we knew exactly what the changes  
11 were and the differences. Sometimes you look at this  
12 at, like an upgrade to your phone. Sometimes  
13 they're, you do that upgrade and you don't really  
14 notice a difference. Sometimes you do the upgrade  
15 and there's some significant differences. When we  
16 have those significant changes we will be giving the  
17 appropriate training to the right folks that will be  
18 affected going forward, and there's time to plan for  
19 that. So, as you said we, we're planning the our,  
20 the next upgrade to be in November of 2020. During  
21 that time period we'll evaluate what those changes  
22 will be and make sure that we have the right train,  
23 we train the right elements for the changes that will  
24 take place.

25 CHAIRPERSON HOLDEN: And did they do any,  
I mean, did you notify them of any bugs that you're

3 seeing in the system and/or things that could be made  
4 a little and are that accommodating you on that, or  
5 is there pushback?

6 KEVIN LYNCH: Yes, we, we, no, we have a  
7 very transparent and open relationship with them.  
8 When we find, ah, when we find elements that need to  
9 be corrected programatically within their application  
10 we have an escalation method to notify them and track  
11 the remediation of it.

12 CHAIRPERSON HOLDEN: OK. Thank you,  
13 Chair.

14 CHAIRPERSON RIVERA: I just have one more  
15 question and it's about our physicians again, because  
16 I know that's, that's why you're here. We want to  
17 make sure we're preventing burnout, right? So I guess  
18 my last question is are you considering hiring more  
19 scribes to help with physicians and do you think that  
20 additional charting hours for this, particularly at  
21 home, which we're hearing from some of the doctors,  
22 they have to take some of this work home with them,  
23 right? That's supposed to be like your time. And  
24 will all of those hours that they're putting in to  
25 ensure that the data is entered and collected lead to

3 doctor burnout and I guess my real question are you  
4 considering hiring more scribes to assist them?

5 KEVIN LYNCH: I will try to take all of  
6 those at once here. Those are great, those are  
7 really great questions. Physician burnout is a  
8 national problem. We have that problem here. I just  
9 want to say this. We are really committed to  
10 reducing the burden of the electronic medical record  
11 and playing to its strengths in areas that it can  
12 help the physicians and help the nurses and  
13 ultimately help our patients. There's many tools  
14 that we used and scribes are certainly one of them.  
15 They're not the right answer in every situation.  
16 They are in some. Voice dictation is the right  
17 response in some areas. Expediting work flows, so if  
18 a patient comes in with strep throat there's a pre-  
19 defined algorithm that you go through so we can make,  
20 we can ease the burden of documentation for those  
21 common conditions, suggests the right patient  
22 discharge instructions, and that reduces the  
23 physician's time documenting. So it's, it's all of  
24 the above is the answer to your question. And yes,  
25 we do look at scribes.

2 CHAIRPERSON RIVERA: So you are looking  
3 to hire more scribes?

4 KEVIN LYNCH: We do look at, we do, I'm  
5 not particularly aware of us looking to hire more  
6 scribes at this moment.

7 CHAIRPERSON RIVERA: OK.

8 KEVIN LYNCH: We have used scribes and we  
9 do routinely evaluate it on a case-by-case basis.

10 CHAIRPERSON RIVERA: OK. OK, I just want  
11 to thank you for being here and for giving us time to  
12 answer some of our questions. Again, I want to ask  
13 that you stay to hear some testimony we have. A  
14 couple of physicians who are here who want to speak  
15 to this issue and I think it would be helpful for all  
16 of us to try to do the best thing for our patients  
17 and the physicians and staff at our hospital system.  
18 So thank you very much, and with that I'm going to  
19 call the next panel.

20 KEVIN LYNCH: Thank you very much.

21 UNIDENTIFIED: Thank you.

22 CHAIRPERSON RIVERA: Thank you. I'll see  
23 you in Queens.

24 UNIDENTIFIED: Yes.  
25

2 CHAIRPERSON RIVERA: I'm going to call up  
3 Dr. Judith Thompson, who is here from New Braunfels,  
4 Texas. Did I say that correctly? Thank you so much  
5 for being here, by the way. It's a pleasure. Thank  
6 you. Is Leah Houston coming up? Yeah, you could sit  
7 at the, and then we have Varoon Mather, and please  
8 let me know if I mispronounced anyone's name.

9 VAROON MATHER: You got it right.

10 CHAIRPERSON RIVERA: I got it right?  
11 Thank you. Yeah, you get to take a seat and then  
12 we'll just go one by one, and then if there are any  
13 questions from the committee, OK, the Sergeant at  
14 Arms will get your testimony. Give us a copy.  
15 However which side you start, we'll go through each  
16 and everyone of your testimony, and then should we  
17 have questions for you, hopefully you'll be able to  
18 answer them and, and just thank you for being here.  
19 Can we start with you, Doctor?

20 DR. JUDITH THOMPSON: Thank you for the  
21 opportunity to speak to this council. I'm Judith  
22 Thompson. I'm an independent solo general surgeon  
23 from New Braunfels, Texas. But I'm here representing  
24 Practicing Physicians of America, a physician  
25 advocacy group which is committed to patient safety

3 and physician autonomy. I'm also representing the  
4 Free to Care Movement, which is 22 advocacy groups  
5 across the country, about three million citizens,  
6 37,000 physicians, and it continues to grow on a  
7 daily basis. I'm speaking also on behalf the  
8 Citizens' Council for Healthcare Freedom, founded by  
9 Twyla Brase. Twyla is a expert on HIPAA policy.  
10 She's written a book about it. I learned about this  
11 opportunity yesterday, so if I had a little more time  
12 I would arrange for you to have the book, and it's  
13 not too late if you want it. We can see to it. But  
14 Twyla sent me a text yesterday, and she is an expert  
15 and I am not. I'm an independent physician who saw  
16 this as a very important opportunity, so I stopped  
17 what I was doing, rescheduled my clinic, jumped on a  
18 plane last night, and when I'm done here I'll get on  
19 a plane and go back home, and be in the operating  
20 room in the morning. But this is very, very  
21 important. You guys are asking the right questions,  
22 and they are very important questions. It is hugely  
23 refreshing to hear somebody stop and ask about the  
24 safety of the data, patient safety, and a number of  
25 other questions that I'm going to address, and I'm  
going to truncate my testimony so that you guys can

3 ask questions. But let me read to you what Twyla  
4 wanted you to know. Too many people do not  
5 understand what the electronic health record is and  
6 because of that they're making decisions based upon  
7 false understandings about why it was put into place.  
8 I'm happy to help bring these facts to the committee  
9 to help them understand the truth about this issue.  
10 One more thing - please do not forget to tell them  
11 that HIPAA is not a privacy rule. We all believe  
12 that because we're told that and as physicians we are  
13 obliged to provide for patient safety, but it's my  
14 understand and Twyla would love to give you more  
15 information. The operation side is not obliged to  
16 the same standards. HIPAA is a permissive data-  
17 sharing rule that allows what's happening between  
18 Ascension and Google. People think that HIPAA is a  
19 privacy policy. That is one of the greatest  
20 deceptions ever foisted upon the American people. In  
21 short, the electronic health record facilities what  
22 HIPAA allows. Part of what got my attention to come  
23 here and share some information with you all  
24 yesterday was perhaps, and correct me if I'm wrong,  
25 the question of why has the electronic health record  
not addressed the access to patient safety, cost

3 containment, quality of care, and patient safety.

4 And why has the electronic health record been a

5 primary instrument in the ushering in of the

6 phenomenon of physician burnout, which is driving

7 physicians out of practice, into early retirement, or

8 into committing suicide. I'm not going to blame the

9 electronic health record for that in and of itself,

10 but physician suicide rates are as high as they have

11 ever been in the history of medicine. I'm not an IT

12 expert, but I am a physician who in 24 hours stopped

13 what I was doing to come here and answer these

14 questions. Health, electronic health records fail to

15 address cost, access, quality, and safety because

16 that was not the initial intention of the development

17 of the software program. The intention was to gather

18 our most private and personal information and deliver

19 it to third parties, commercial and government, who

20 use that information to manipulate, mandate, and

21 ration healthcare services. Secondly, the electronic

22 health records were designed to be coding and billing

23 tools, which you obviously are aware of. They have

24 effectively diverted revenue into the hands of

25 special interests, who influence our legislators to

maintain and persist with a system that progressively

3 transfers cost onto patients and clinicians, driving  
4 clinicians out of business and patients into  
5 bankruptcy. Electronic health records have reduced  
6 access to care. As you well know, the amount of time  
7 that we have to spend entering information into the  
8 EHR quite simply takes away from patients. There are  
9 so many minutes in a day. There's reduced safety. I  
10 gave you all information, including a document from  
11 Health and Human Services, albeit from 2010. Not  
12 much has changed since that time in terms of  
13 confusion and likelihood of errors that are  
14 transmitted through the electronic health record  
15 system. With reference to the term quality, quality  
16 has been speciously used. What it really means is  
17 physician compliance with data acquisition and entry  
18 into the electronic health record. If we do not  
19 gather the information that is required by the record  
20 and enter it, then we are not meeting quality  
21 metrics, whether it has anything to do with your  
22 healthcare needs at the time. And we become subject  
23 to a decrease in pay, sham peer review, or even loss  
24 of employment and black-balling, so that we can't  
25 become employed elsewhere. Presently I remain  
independent, but those are threats that I'm

3 potentially faced should I need to become employed to  
4 meet my financial obligations at home. And then last  
5 in terms of cost. I think you have had first-hand  
6 experience with the cost of the electronic health  
7 records. There's the initial hardware, there's the  
8 software, there's the support, there are the  
9 continuous upgrades, there's training and the time  
10 necessary to, ah, teach clinicians, not only  
11 physicians but everybody involved. Those are huge  
12 cost issues, without evidence of improving healthcare  
13 quality, without evidence of improving safety or  
14 access to care. So electronic health records have  
15 failed across the board. So it sounds like you guys  
16 have taken the dive and you're probably committed. I  
17 think the most important message that I would like to  
18 bring to you today is the misunderstanding that we  
19 all have that this is piece of software was rolled  
20 out to serve our best interests. And we have ample  
21 data. The revenue streams have been redirected. The  
22 CEOs of the companies and the special interests, the  
23 hospital systems, insurance companies, IT, and so on  
24 are making profits, historical profits. We've never  
25 seen anything like it. Where that money is going I  
can only speculate. So we just need to be honest

3 with ourselves about what we're doing. And put  
4 yourself in the hospital bed now. When I arrive,  
5 let's say I'm an employed physician. I begin to take  
6 a history from you, and you suddenly wonder why I'm  
7 asking you questions that really have nothing to do  
8 with why you're there and it's rather on the personal  
9 side. If I don't ask those questions and if I don't  
10 enter that information into the electronic health  
11 record I'll be called before the executive board and  
12 asked to explain my behavior and potentially  
13 experience the ramifications of not doing so. And  
14 you're a witness right now, what's happening with  
15 Ascension and Google. This is, this is just the  
16 beginning. Personally, I wonder if this is a threat  
17 to our national security. Google is a worldwide  
18 organization and it's easy for me to imagine that  
19 they will enter into business contracts with many  
20 other healthcare organizations and what they'll do  
21 with that information I just don't know. Thank you  
22 very much for this opportunity.

23 CHAIRPERSON RIVERA: Thank you, and I  
24 just wanted to say that I know we're in a different  
25 time zone technically, but if I had any questions

3 about some of the information that you gave us I hope  
4 that we can stay in touch.

5 DR. JUDITH THOMPSON: Please do, yeah.

6 CHAIRPERSON RIVERA: A little red light  
7 is on, because then I can hear you a lot better.

8 DR. LEAH HOUSTON: Hello, hi, thank you so  
9 much for having us and giving us an opportunity to  
10 speak. I'm going to echo what Dr. Thompson said.  
11 When we heard some of the questions we were very  
12 grateful to hear that you were paying attention to  
13 some of the most important questions that we've been  
14 having for many, many years. Interestingly, I'm  
15 echoing a lot of what she said in this, but I do want  
16 to explain why I'm here. I'm an emergency room  
17 physician in practice for 10 years and I'm currently  
18 the founder of a company that aims to give privacy to  
19 physicians around their data as practicing doctors in  
20 order to allow them to interact with patients,  
21 especially as we talk more about telemedicine and  
22 things of that nature. Transparency and who is on  
23 the other end of that, knowing their credentials,  
24 knowing their qualifications, and being certain of  
25 that. There's new secure technology that is a  
decentralizing technology that isn't kept in

3 centralized systems. And a lot of these data  
4 breaches that you mentioned, the reason that these  
5 breaches occur is because the data is being kept in  
6 centralized systems. And to date that's really the,  
7 the only available option that we have, which is why  
8 that's what is being implemented. But I do strongly  
9 feel that 15 years out that is not going to be, the  
10 current system is not, is no longer going to be  
11 useful and these new decentralizing technologies that  
12 allow for self-sovereignty allow for data ownership,  
13 allow for privacy protection, are going to be  
14 implemented, or at least that's my hope. So there  
15 was a quote that I saw in an email thread that came  
16 through this invite, and it said that studies show  
17 that while EHRs have improved billing processes they  
18 have yet to really improve patient health. And  
19 although we can hear anecdotal stories of children  
20 that don't need to be intubated or, you know, alarm  
21 fatigue issues that are being alleviated, overall I  
22 tend to agree that EHRs are doing more harm than  
23 good. You know, we as physicians are the ones who  
24 took an oath to put patients first above all else.  
25 We predicted this long ago. We were ignored. Those  
who designed and implemented EMR technology did not

3 take our concerns, the concerns of the physician  
4 community, into consideration and therefore the  
5 technology is not providing benefit. I appreciate  
6 and commend that you're giving me an opportunity to  
7 testify as a physician who has seen and experienced  
8 the harm caused by EMR. Since the inception of [High  
9 Tack] in 2009 we've watched in horror as this  
10 technology has forced its way into our exam rooms and  
11 led to an assault on the doctor-patient relationship.  
12 Medical resources were historically created for  
13 communication from physician to physician in order to  
14 best coordinate care for the patient. It later  
15 became a form of evidence for malpractice attorneys  
16 and later as HMOs gained market share it began to be  
17 used as a tool to capture information for billing and  
18 coding. The [High Tack] app allowed industry,  
19 special interest, to control the narrative around how  
20 these systems were designed and it has been those  
21 industries that have benefitted. Meanwhile, the  
22 patients, the ones who should actually matter, are  
23 seeing no benefit because they were not truly  
24 considered. Our patients feel ignored and we've been  
25 mandated to ignore them or risk our jobs or our  
liveliness, as Dr. Thompson mentioned. This is a

3 government-mandated, uncompensated, administrative  
4 burden that is taking time away from our patients.  
5 The time that used to be utilized to think critically  
6 about complex patient problems has now been  
7 misappropriated to clicking boxes to capture  
8 meaningless metrics. Alert fatigue, copy and paste,  
9 and forced clicks to proceed have left us with  
10 useless, inaccurate, and dirty data, and an inability  
11 to see the actual clinical picture. Physicians are  
12 spending more time with EMR than they are with their  
13 patients and this is why we're frustrated and  
14 exhausted, to the point that we're leaving our  
15 practice and dying by suicide at faster rates. We  
16 didn't discuss this beforehand, so this is a real  
17 problem, obviously. Electronic health records are  
18 inefficient, not interoperable, and an intrusion on  
19 the doctor-patient relationship. Because EMRs are  
20 now mandated, health systems, insurance companies,  
21 and EMR companies now have our patients' protected  
22 health information and we no longer have the rights  
23 to protect it as physicians. Cerner and EPIC now  
24 control nearly 50% of the market. Why do private  
25 companies have so much control over the practice of  
medicine and the structure of medical documentation?

3 In many ways, and in my opinion, this has been a  
4 government-sanctioned, human subjects research  
5 experiment that they never sought proper informed  
6 consent for. I commend the ONC's 21st Century Cures  
7 Act acknowledgement of some of these problems and  
8 hope that they follow through on implementing the  
9 interoperability and enforce the penalties for  
10 information blocking, as they promise. In addition,  
11 more needs to be done to preserve patient privacy, as  
12 patients need to be assured that they can be honest  
13 with their physicians in order to obtain the best  
14 care. We talk about consent. I just want to add  
15 something about that. Informed consent means that I  
16 discuss the risks, the benefits, and the  
17 alternatives. My mother is suffering from leukemia  
18 right now. She is not being given any type of  
19 informed consent around what they're doing with her  
20 data that they're putting into those EMRs. And there  
21 has been at the hospital she is at, I'm not going to  
22 name names, there has recently been some news about  
23 them using patient data inappropriately. So it's a  
24 concern for me as a physician and as, you know, a  
25 caregiver. So there's some pictures here, I took  
some snapshots of some Twitter comments from

3 patients. They're really feeling like they aren't  
4 able to get the care that they need, and this is all  
5 interrelated. And there's one additional and  
6 unfortunately far more insidiously problem occurring  
7 that I must draw your attention to. Based on my  
8 experience and review of currently available  
9 information, I have reason to believe that the data  
10 we're being forced to generate as physicians is not  
11 being analyzed to improve patient outcomes, as  
12 promised, as much as it is being analyzed to improve  
13 revenue streams. The cost of care is going up. The  
14 value patients see is going down, and the payment for  
15 services is being increasingly denied and reduced.  
16 It's now clear to me that we as physicians are being  
17 forced to mine our patients' private health data for  
18 industries who seek to extract value from rather than  
19 provide value to patients. No wonder US life  
20 expectancy is now decreased for two years in a row.  
21 Surveillance capitalism has reached our exam rooms  
22 and patients are dying. Considering our recent  
23 experience with the Cambridge Analytica scandal, this  
24 concern must be taken seriously as a potential threat  
25 to the health of our nation.

3 CHAIRPERSON RIVERA: Thank you, and thank  
4 you for sharing your story personally and how you're  
5 concerned.

6 VAROON MATHER: Good afternoon,  
7 Chairpersons Rivera and Holden, and members of the  
8 Hospitals and Technology Committees. My name is  
9 Varoon Mather and I currently serve as a technology  
10 fellow at the AI Now Institute, an interdisciplinary  
11 research institute at NYU, focused on the social  
12 implications of artificial intelligence. Thank you  
13 for the opportunity for me to testify today on  
14 privacy and security concerns regarding electronic  
15 health records. The rapid development and  
16 implementation of machine learning algorithms and  
17 data sharing partnerships to the healthcare space  
18 bring new challenges around privacy, security, and  
19 patient identifiable through EHR data. These new  
20 developments raise two key questions. One - how does  
21 our definition of protected health information, or  
22 PHI, change in the age of AI algorithms, given their  
23 predictive capabilities which can disclose sensitive  
24 information, even absent PHI. And two, how do we  
25 assess the utility of EHRs in building more advanced  
algorithms for better patient care? New research

3 suggests that the rapid development and deployment of  
4 clinical AI tools, absent regulatory oversight,  
5 leaves patient vulnerable to privacy and security  
6 breaches. Under HIPAA, PHI data is characterized as  
7 data that directly and uniquely ties to an  
8 individual, with examples including names, birth  
9 dates, and email address. De-identified data  
10 therefore would be the removal of such categories  
11 from a potential EHR dataset. However, new research  
12 shows that it is possible to link two de-identified  
13 EHRs of the same patient but from two different data  
14 sources accurately using computational methods, so as  
15 to create a complete history of a patient without  
16 using any PHI of the patient in question. Similarly,  
17 last month a *New York Times* article reported new  
18 research that showed it is possible to create a  
19 reconstruction of a patient's face using de-  
20 identified MRI images that could then be identified  
21 using facial recognition systems. These examples  
22 demonstrate how vulnerabilities within large  
23 technology infrastructure present serious security  
24 and privacy challenges for the collection and use of  
25 EHR data, and that these may be beyond the reach of  
HIPAA protections. But trading the privacy and

3 security of individual patients in order to leverage  
4 precision clinical care incorrectly assumes that EHR  
5 data are inherently viable for training of machine  
6 learning algorithms and models. Research, for  
7 example, conducted by Dr. Elizabeth Kazunis, a post-  
8 doctoral fellow at AI Now, demonstrated the ways in  
9 which the social construction of health data results  
10 in a failure to capture important types of health  
11 information for the patient. Given the large number  
12 of world-class health systems in New York City, this  
13 committee has a unique opportunity to spearhead  
14 citywide legislative efforts that can address current  
15 challenges. We provide three forward-looking policy  
16 recommendations that this council could pursue, which  
17 are detailed in my written testimony. But one,  
18 require New York City Health Systems procuring AI and  
19 ML solutions to conduct algorithmic impact  
20 assessments as part of notifying and obtaining  
21 consent from patients. Two, require New York City  
22 Health Systems to publicly state whether social media  
23 data is combined with EHR data for patient  
24 surveillance or monitoring of patient well-being.  
25 And three, conduct citywide disparate impact  
evaluations around the current uses of EHRs in order

3 to identify potential socioeconomic disparities  
4 arising from the use of AIL and ML health solutions  
5 with EHR data. Thank you very much.

6 CHAIRPERSON RIVERA: Thank you so much  
7 for your testimony, and I just want to ask about AI  
8 Now. So you are, can you tell me a little bit about  
9 the group?

10 VAROON MATHER: Yeah, absolutely, thank  
11 you for the question. The AI Now Institute is an  
12 interdisciplinary research institute that focuses on  
13 trying to understand the social impacts of  
14 technology, especially artificial intelligence,  
15 within communities. So we have a team of research  
16 scholars that focus on the law and policy aspects of  
17 artificial intelligence , the historical significance  
18 of artificial intelligence within communities, how  
19 are communities impacted through ethnographic data  
20 that we collect and share, ah, that we collect and  
21 publish as a research institute, and we also talk  
22 about the security and privacy concerns around AI as  
23 it impacts how we define and think about surveillance  
24 and security. We are also, just to add, sorry, we  
25 are housed at NYU, so we are an academic research  
institution.

2 COUNCIL MEMBER RIVERA: Thank you. I  
3 want to recognize that we've been joined by Dr.  
4 Mathieu Eugene. In terms of, I just have one more  
5 question for you about this, because you are studying  
6 AI and we all know that's it here, it's been here  
7 actually for a long time and it's as common as  
8 writing an email, right? Are you looking at how, I  
9 guess on a grander scale would you say that the  
10 technology that is being used specifically and  
11 directly related to EHR is probably one of the  
12 greatest threats to how you look at data and how it  
13 impacts adversely certain communities that have  
14 historically, um, I guess been under threat.

15 VAROON MATHER: Yeah, thank you for the  
16 question. There's a key example that I detail in my  
17 written testimony at the end where a recent team from  
18 Berkeley were able to show that data, that algorithms  
19 built on top of patient data showed that an algorithm  
20 was recommending less care for black patients based  
21 on the fact that healthcare costs were used as a  
22 proxy to understand how high risk a patient would be.  
23 That's problematic because even though the EHR data  
24 might be capturing some patient information, it's not  
25 capturing the problem within the sociotechnical

3 context, which is that black patients on average are  
4 getting less access to care, and so we see electronic  
5 health records as being marketed as this new promise  
6 for big data analytics in which hospital systems  
7 might be tempted to think that better patient  
8 precision care could be built up EHRs. And new  
9 research now is showing, at least from what we are  
10 seeing, is that this is highly problematic, um,  
11 without proper auditing.

12 CHAIRPERSON RODRIGUEZ: Thank you, thank  
13 you for kind of reading into my question and being  
14 very honest about some of the data and those results  
15 and outcomes that we know have historically poor  
16 communities of color. Are there any questions from  
17 members of my committee?

18 CHAIRPERSON HOLDEN: Dr. Thompson, thank  
19 you for coming all the way here to New York City with  
20 information. Now you use EPIC and you said that they  
21 ask so many questions of the doctor that are not  
22 related to the particular patient. Why are they  
23 doing that?

24 DR. JUDITH THOMPSON: I do not use EPIC.  
25 I use Allscripts and Medichex. I am in contact with  
colleagues who use EPIC and there's a great deal of

3 overlap of all four of the systems, but I can't speak  
4 directly to that. The supposition is that this  
5 information is being gathered to manipulate  
6 population health, manipulate the behavior of  
7 physicians, develop healthcare delivery algorithms,  
8 and frankly to ration care. The special interests  
9 have their hands on the money. You and I open our  
10 checkbooks and deliver a check to them on a regular  
11 basis. The government has a limited amount of money  
12 to pay for healthcare expenditures and the less they  
13 pay the special interests the more they get to keep.  
14 So the more personal private information they have on  
15 us, the more that they can use the analytical  
16 information to predict our behavior and likelihood of  
17 compliance and use that information to inform and  
18 guide physicians about how to implement treatment  
19 strategies.

19 CHAIRPERSON HOLDEN: So do you have any  
20 suggestions for improving the system or addressing  
21 what, how the patients can protect themselves? Is  
22 there, or should Congress do something? Do you have  
23 any suggestions, I mean?

24 DR. JUDITH THOMPSON: Yeah, the problem  
25 with Congress, if you will, and we have been there

3 and I'm going to quote Tom Massie, who is an  
4 independent from Kentucky. He said don't you  
5 understand that the lobbyists are in our offices  
6 every day telling us how to vote? And I told him  
7 yes, and I know that you know that my office is open  
8 and I bought an airplane ticket and I came up here to  
9 discuss with you what we think is important, boots on  
10 the ground level, and if you have a moral dilemma  
11 with who you're going to listen to let's hear about  
12 it right now. But the point being that the medical  
13 lobby in Washington, D.C. spends more dollars than  
14 all of the other lobby groups combined. The profits  
15 that they're generating right now are historical  
16 across the board. So data is being gathered, it's  
17 being moved in a way that's very profitable for the  
18 organizations, and billing and coding is being  
19 directed in such a way that, again, the revenue  
20 streams have been redirected into administrative and  
21 executive suites and away from clinicians and  
22 transferring those costs onto the shoulders of  
23 citizens.

24 CHAIRPERSON HOLDEN: So who's protecting  
25 the patient in Washington?

3 DR. JUDITH THOMPSON: There are a number  
4 of advocacy groups and there are grassroots advocacy  
5 groups all over the country. I've been involved in  
6 physician and patient grassroots advocacy since 2014  
7 and in 2014 when we started there were about 30  
8 groups across the country. They were very small.  
9 That's not one advocacy group per state. And now  
10 the, there is what I perceive to be a traffic jam or  
11 a growing hurricane of citizens and physicians alike  
12 who are finally getting their noses up off the  
13 grindstone and saying we have had enough and we  
14 object to what's happening. But it is very time-  
15 consuming and very expensive and you do you have to  
16 develop a personal relationship with your legislator.  
17 You have to stop what you're doing. You have to  
18 become informed, and when you get you have to be  
19 persuasive, and you have to be persuasive against,  
20 you know, special interest lobby money. So it's a,  
21 it's a challenging feat. But what better time, what  
22 better thing to do with our time and interest? I  
23 think I'm, this is my giving back to the country,  
24 personally. So how do patients protect themselves?  
25 I don't think we have a way to protect ourselves, not  
right now. And how can things be improved? I think

3 that the existing electronic health records systems  
4 that are, what, 10 or 15 years old and patched upon  
5 patched upon patched probably need to be disposed of  
6 and a new functional healthcare technology. I don't  
7 disagree that technology is going to be an important  
8 part of how we all communicate and share information  
9 with each other and in our society in the future, but  
10 using these antiquated systems that were developed,  
11 to the best of my understanding, by graduate students  
12 when the high tech act was implemented about 2009,  
13 and the government put a bunch of money on the table  
14 and suddenly companies popped up and created a  
15 software product that, ah, was intended very  
16 specifically to redirect the money. Follow the  
17 dollar. Any of us who were in politics long enough  
18 learned that that's ultimately the answer to the  
19 question. So I think that if, if technology were to  
20 be developed with the input of physicians who  
21 understand technology and maybe even patient  
22 advocates with privacy elements in place that we  
23 could be faced with less of a threat than we are  
24 faced with right now. Right now there's just no  
25 holds barred.

3 CHAIRPERSON HOLDEN: Well, thank you so  
4 much for that.

5 CHAIRPERSON RIVERA: We've been joined by  
6 Council Member Costa Constantinides. So if there is,  
7 and again I just want to thank the three of you and  
8 especially for traveling here, on what we knew was an  
9 important topic and we're glad that people have  
10 responded in all different, from all different  
11 perspectives. We want to make sure that we stay in  
12 touch with you and as, and as New York City continues  
13 to go forward with this how we can really make sure  
14 we're holding our public institutions at the very  
15 least accountable. I'm said to say, you know, we  
16 have a, the Greater New York Hospital Association,  
17 they represent a large number of hospitals here in  
18 New York City that are not a part of the H&H system  
19 and they let us know about an hour before the hearing  
20 that they could not attend, and so they submitted  
21 written testimony, which will be memorialized.  
22 However, it's discouraging that we could not ask them  
23 some of these questions that you yourselves  
24 understand are very important. With that, I just  
25 want to say thank you again to Health and Hospitals  
for being here, for always being present, for

2 answering our questions, and again to the three of  
3 you especially for your testimony. It's really,  
4 really appreciated. Thank you very much.

5 DR. JUDITH THOMPSON: If I may say one  
6 other thing. You may have unwittingly put on a real  
7 leadership hat by asking these questions and allowing  
8 all of us to have the opportunity to come and  
9 respond. I hope that the rest of the country will  
10 follow in like kind. Thank you.

11 CHAIRPERSON RIVERA: I hope so, too, and  
12 if you can stay in touch with us, I know that this  
13 leads to a number of other issues. One of them was  
14 touched on, including medical debt, which I think  
15 its...

16 DR. JUDITH THOMPSON: Right.

17 CHAIRPERSON RIVERA: Incredibly  
18 problematic nationally. So thank you, and if I have  
19 no other questions from members of the committee,  
20 going to adjourn this hearing. Thank you so much.

21 CHAIRPERSON HOLDEN: Thank you. [gavel]

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C E R T I F I C A T E

World Wide Dictation certifies that the foregoing transcript is a true and accurate record of the proceedings. We further certify that there is no relation to any of the parties to this action by blood or marriage, and that there is interest in the outcome of this matter.



Date December 1, 2019