

October XX, 2011

Farzad Mostashari, MD, ScM
National Coordinator for Health Information Technology
U.S. Department of Health and Human Services
200 Independence Avenue, SW
Washington, DC 20201

Dear Dr. Mostashari:

The HIT Policy Committee (Committee), established by Congress in the Health Information Technology for Economic and Clinical Health Act (HITECH) provisions of the American Recovery and Reinvestment Act of 2009 (ARRA), gave the following broad charge to its privacy and security policy working group (known as the Privacy & Security Tiger Team or “Tiger Team”):

Broad Charge for the Privacy & Security Tiger Team:

The Tiger Team is charged with making short-term and long-term recommendations to the Health Information Technology Policy Committee (HITPC) on privacy and security policies and practices that will help build public trust in health information technology and electronic HIE, and enable their appropriate use to improve healthcare quality and efficiency, particularly as related to ARRA and the Affordable Care Act (ACA) which mandates a number of duties to the ONC relative to privacy and security.

This letter provides recommendations to the Department of Health and Human Services (HHS) on issues raised by an Advanced Notice of Proposed Rulemaking (ANPRM) (published July 26, 2011, *Human Subjects Research Protections*) regarding secondary uses of electronic health record (EHR) data for research uses. On September 14, 2011, the Tiger Team reported on and discussed its findings with the Committee, which subsequently approved the recommendations outlined below. The Policy Committee is also submitting these recommendations as comments to the ANPRM.

Introduction

The Policy Committee supports the intent of the ANPRM to update key federal privacy regulations to respond to a changed information environment. In addition, we note that many of the emerging structures and programs associated with the ACA reforms will depend upon increased access to clinical information. The success of Accountable Care Organizations, episode-based payment, insurance exchanges, and value-based payment programs depend upon coordination of care across settings and across time, increased exchange of information with patients and caregivers, and computation of standardized measures of clinical quality – often for use in high-stakes payment and

recognition programs. This emerging environment may create new challenges for balancing reliable access to clinical data with protection of patient privacy and respect for individual patient values regarding data use. The overarching ambition of creating a “learning health system” suggests the need for substantial re-thinking of the historic approaches we have taken to encouraging and also regulating secondary uses of health care information.

The Policy Committee appreciates that the legal and ethical issues raised by human subjects research are very complex. Although some Committee members have expertise in conducting and/or overseeing research in their practices or institutions, there was insufficient time for the Committee to delve into all of the questions raised in the ANPRM.

However, the Policy Committee has issued recommendations regarding privacy and security protections for information in EHRs that could be helpful to HHS in resolving some of the issues raised by the ANPRM. Consequently, the Policy Committee limited its focus to the following two questions regarding the secondary use of data in EHRs initially collected for treatment purposes and also used secondarily for evaluations, assessments, and reports:

- What secondary uses of data constitute “research” and therefore should be subject to regulation as research under the Common Rule (and under HIPAA)?
- The ANPRM prioritizes consent (and also proposes the adoption of security measures) to safeguard EHR data (particularly identifiable EHR data) used for research purposes. Is this sufficient to build and maintain trust in secondary data uses?

Please note that the lack of comment on some aspects of the secondary use of data for research, such as the elements of informed consent and the circumstances justifying waiver of consent, should not be interpreted as the Committee’s support for, or disagreement with, the ideas in the ANPRM.

In considering the issues raised by the ANPRM’s consideration of secondary uses of EHR data in the ANPRM, we sought to build on the following previous recommendations of the Tiger Team (taken verbatim from the letter approved by the Policy Committee in August 2010); we have attached that letter as an appendix to these recommendations:

Core Values

- The relationship between the patient and his/her health care provider is the foundation for trust in health information exchange; thus providers are responsible for maintaining the privacy and security of their patients’ records.

- Patients should not be surprised about or harmed by collections, uses or disclosures of their information.

Recommendations on Fair Information Practices and on Consent:

- All entities involved in health information exchange should follow the full complement of fair information practices when handling personally identifiable health information.
- When the decision to disclose or exchange a patient’s identifiable health information is not in control of the provider (or the provider’s organized health care arrangement (OHCA¹)), patients should be able to exercise meaningful consent to their participation.

Recommendations

Question 1: What secondary uses of data constitute “research” and therefore should be subject to regulation as research under the Common Rule (and under HIPAA)?

The Common Rule currently exempts research using existing EHR data from requirements for IRB review if the data does not identify individual subjects. The ANPRM proposes to retain this exemption from IRB review² – but to require prior, general consent for any research using identifiable data. Research done with a limited data set or with HIPAA de-identified data would not require consent.

¹ Organized health care arrangement (45 CFR 160.103) means:

- (1) A clinically integrated care setting in which individuals typically receive health care from more than one health care provider;
- (2) An organized system of health care in which more than one covered entity participates and in which the participating covered entities:
 - (i) Hold themselves out to the public as participating in a joint arrangement; and
 - (ii) Participate in joint activities that include at least one of the following:
 - (A) Utilization review, in which health care decisions by participating covered entities are reviewed by other participating covered entities or by a third party on their behalf;
 - (B) Quality assessment and improvement activities, in which treatment provided by participating covered entities is assessed by other participating covered entities or by a third party on their behalf; or
 - (C) Payment activities, if the financial risk for delivering health care is shared, in part or in whole, by participating covered entities through the joint arrangement and if protected health information created or received by a covered entity is reviewed by other participating covered entities or by a third party on their behalf for the purpose of administering the sharing of financial risk.

[provisions applicable to health plans omitted]

² Instead, HHS is proposing to require researchers to file a brief one-page summary of the research with the IRB or research office.

Technology enhances the ability to conduct assessments of health care quality, safety and effectiveness; technology also enhances the ability of providers to effectively treat patients and improve population health. In its Health Information Technology Strategic Plan, ONC has specifically identified the goal of using health IT to improve both individual and population health. Consequently, providers and health care organizations should be expected to use data in EHRs to optimally treat patients and evaluate the quality and effectiveness, including the comparative effectiveness, of the care they provide —and to share the results of this analysis with others. In practice, however, many health care organizations are today reluctant to engage in quality improvement efforts that require them to share information across enterprise boundaries.

Although we applaud the ANPRM for its efforts to provide greater flexibility for research activities, more clarity regarding which data activities constitute “research” and which are “operations” could help remove real or perceived obstacles to the use of EHR data for critical analyses and feedback loops. During deliberations on this issue, we received numerous examples of beneficial secondary uses of EHR data to improve individual and population health, and participants in our calls and meetings on this issue expressed concern about potential regulatory obstacles to these uses. We offer in this letter just two of these examples for illustrative purposes:

The proposed rules could provide great value to the provider community by clarifying which situations for data sharing will be regarded as “operations” and which will be regarded as “research”. In cases deemed to be research, federal guidance should provide clarity regarding the minimum necessary processes to ensure patients are protected and quality improvement feedback can be provided.

Current rules (both the Common Rule and HIPAA) define “research” as activities designed to develop or contribute to “generalizable knowledge.” Since the creation of a learning healthcare system will depend on more widespread dissemination of the results (in a way that safeguards individual privacy) of treatment interventions and evaluations of the health care system, characterizing research as any evaluative activity that contributes to the “generalizable knowledge” arguably no longer serves the interests of either patients or providers.

The use of EHR systems by providers creates new technological opportunities to improve treatment of patients and to evaluate the quality, safety and effectiveness of that care. We are concerned that the regulation of all such activities as “research” could limit or pose obstacles to them. We offer the following suggestions to HHS as it continues its efforts to modernize the Common Rule, create more consistency with HIPAA, and address pertinent policy issues that arise with respect to secondary uses of EHR data:

1. The use of a provider entities’ EHR data for treatment purposes or to evaluate the safety, quality and effectiveness of prevention and treatment activities should not require consent or IRB approval or even minimal registration. HHS could

take the approach of not labeling these activities as “research” but instead should consider them to be treatment or operations if conducted by, or on behalf of (such as by a business associate), a provider entity.

- a. This exemption should apply even if the results are intended to, or end up being, publicized or more widely shared (i.e., contribute to generalizable knowledge).
- b. We expect provider entities to maintain proper oversight over, and be accountable for the conduct of, these activities, including when these activities are conducted by a business associate on their behalf.³ How provider entities govern the conduct of these activities within their practices or institutions should be left to their best judgment.⁴
- c. Consent should not be required to access EHR data for these purposes, even if the data does not qualify as either a limited data set or de-identified data; however, provider entities should always use the minimum necessary amount of data to accomplish these activities (including removing patient identifiers prior to analysis for quality, safety or effectiveness when it is not necessary to identify individual patients).
- d. Examples of the type of activities the Policy Committee agrees should be covered by this recommendation (not intended to be an exhaustive list):
 - i. The use of EHR data to improve care provided to patients (such as by evaluating the effectiveness of care).
 - ii. Early detection of patient safety issues through identification of patterns of adverse events.
 - iii. Evaluation of interventions designed to improve compliance with existing standards of care and outcomes (e.g. interventions that reduce the rate of hospital-acquired infections)
 - iv. Monitoring individual clinicians and professional staff for adherence to existing standards of care and existing treatment protocols; data comparisons of outcomes.
 - v. Outreach efforts intended to increase patient compliance with existing standards (e.g. vaccinations, cancer screening tests).

³ See our previous recommendations in the appendix for further details on how intermediaries or business associates should be expressly limited in their collection, use and disclosure of personal health information received from covered entities.

⁴ It is quite possible that an entity might want to use its IRB to continue to have oversight into all evaluative activities done using information from its EHRs, and our recommendations should not be interpreted to prohibit the use of IRBs for this purpose. However, we want to make it clear that we do not think the Common Rule should require such IRB review or registration.

2. Consistent with the Policy Committee's previous recommendations (summarized earlier in this letter), the above exemption should apply only when the provider entity (or OHCA) retains oversight and control over decisions regarding when their identifiable EHR data is used for quality, safety and effectiveness evaluations.
 - a. This recommendation is based on previous Tiger Team/Policy Committee recommendations that recognize that patients place their trust in their health care providers with respect to stewardship of their health information. Consequently, when the provider entity (or the OHCA) that the patient trusts no longer has control over decisions regarding access to patient identifiable data (for example, in certain centralized health information organization (HIO) arrangements), the patient should have meaningful choices regarding whether or not his or her identifiable information is part of such an arrangement.
 - b. This exemption should be interpreted to allow provider entities (or OHCA's) to collaborate and share identifiable information for treatment purposes or to conduct quality, safety and effectiveness assessments, as long as the entities remain in control over decisions regarding how their EHR identifiable data is to be accessed, used and disclosed.
 - c. Entities should follow the full complement of fair information practices in using identifiable data for these purposes, including (but not limited to) being transparent with patients about how their data is used for treatment and quality, safety and effectiveness evaluation purposes, using only the minimum amount of data needed to accomplish the particular activity, and protecting the data with security measures that are commensurate with the risks to privacy).

In other words, rather than rely on the traditional IRB levels of review (or nonreview) and general patient consent as a mechanism for regulating the use of EHR data for evaluative purposes, the Policy Committee is urging HHS to hold provider entity's accountable for development and implementing their own policies in circumstances where these entities maintain oversight and control over the use of information from their EHRs. Such a viewpoint is consistent with the core value that patients generally trust their own providers with respect to privacy, and in particular for exercising good judgment regarding access to, and uses of, their sensitive health information. This view also acknowledges that requiring general patient consent for "research" does little to protect individual privacy and could introduce bias into the analysis being conducted.

It will be vital that federal guidance on privacy protective practices evolve with the continuing changes in health policy and technology. As HHS refines its policies on research, we encourage you to anticipate these and similar "secondary uses" of patient health information and provide as much guidance as possible to practitioners, both to

reduce unnecessary concern and analysis, and to facilitate beneficial uses of these data while protecting individual privacy.

As a final note, the Policy Committee acknowledges that these recommendations lessen the specific regulatory obligations on some activities that previously would have been subject to regulation as research, and this was intentional. However, a number of Committee and Tiger Team members also expressed a desire to set some outer boundaries on the types of quality, safety and effectiveness activities that should be classified as “operations” and those that cross the line into research and should require a higher level of review under the Common Rule (and HIPAA where it applies). Under current rules, that boundary is set based on whether or not the activities are intended to contribute to generalizable knowledge. In a learning healthcare system, it is clear that this historic boundary will no longer work, and the Policy Committee reached clear consensus on this point.

However, the Committee did not have sufficient time to consider whether there are certain types of quality, safety, and effectiveness activities that should still be regulated as research – and instead determined that provider entities themselves should be held accountable for any activities that take place with EHR data over which they have stewardship and legal responsibility. For many of our Tiger Team and Policy Committee members, such institutional oversight was sufficient to ensure that activities that should be considered “research” would be properly regulated. Nevertheless, given the lack of transparency to the public about the conduct of these activities by provider entities, there may still be a need for a more clear line between what constitutes “operations” and what is “research.” The Committee urges HHS to spend additional time considering this question prior to issuing a proposed or final set of research rules.

Question 2: The ANPRM prioritizes consent (and also proposes the adoption of security measures) to safeguard EHR data (particularly identifiable EHR data) used for research purposes. Is this sufficient to build and maintain trust in secondary data uses?

The Common Rule has traditionally focused on when an individual’s consent is or is not required to be obtained for research uses of clinical data, and the ANPRM largely continues this historic emphasis (with the exception of the suggested addition of security requirements, which we support and address further below). However, consent is but one element of fair information practices, the framework that typically is applied to uses of potentially sensitive information. Overreliance on consent can inappropriately shift the burden for protecting privacy onto patients, particularly when consent is sought in a general or “blanket” way (such as consent for all “research” uses of EHR data).

The Policy Committee has endorsed ONC’s articulation of fair information practices, the Nationwide Privacy and Security Framework for Electronic Exchange of Individually Identifiable Health Information:⁵

⁵ http://healthit.hhs.gov/portal/server.pt/gateway/PTARGS_0_10731_848088_0_0_18/NationwidePS_Framework-5.pdf.

- **Individual Access** – Individuals should be provided with a simple and timely means to access and obtain their individually identifiable health information in a readable form and format.
 - **Correction** – Individuals should be provided with a timely means to dispute the accuracy or integrity of their individually identifiable health information, and to have erroneous information corrected or to have a dispute documented if their requests are denied.
 - **Openness and Transparency** – There should be openness and transparency about policies, procedures, and technologies that directly affect individuals and/or their individually identifiable health information.
 - **Individual Choice** – Individuals should be provided a reasonable opportunity and capability to make informed decisions about the collection, use, and disclosure of their individually identifiable health information. (This is commonly referred to as the individual’s right to consent to identifiable health information exchange.)
 - **Collection, Use, and Disclosure Limitation** – Individually identifiable health information should be collected, used, and/or disclosed only to the extent necessary to accomplish a specified purpose(s) and never to discriminate inappropriately.
 - **Data Quality and Integrity** – Persons and entities should take reasonable steps to ensure that individually identifiable health information is complete, accurate, and up-to-date to the extent necessary for the person’s or entity’s intended purposes and has not been altered or destroyed in an unauthorized manner.
 - **Safeguards** – Individually identifiable health information should be protected with reasonable administrative, technical, and physical safeguards to ensure its confidentiality, integrity, and availability and to prevent unauthorized or inappropriate access, use, or disclosure.
 - **Accountability** – These principles should be implemented, and adherence assured, through appropriate monitoring and other means and methods should be in place to report and mitigate non-adherence and breaches.
3. We recommend that all entities using clinical data for secondary and research purposes be required to adopt policies and/or best practices that address all relevant fair information practices, regardless of whether or not a patient’s consent is required to be obtained.
- FIPs are intended to be flexible and contextual - and not rigid rules applied without consideration for the particular circumstances and potential consequences. We recognize that not all of the fair information practices may be relevant to some researchers (for example, the requirement to provide individuals with access to copies of information about them or to provide a mechanism for correcting

data). But we do believe it is relevant for researchers to limit the amount of information collected to what is necessary to perform the research; limit the number of people who have access to the data for research purposes to those performing the research; have policies for being open and transparent with the public about research that is conducted using clinical data; and adopt and adhere to specific retention policies with respect to the data.

- As another example of fair information practices, researchers should be required to adopt security protections consistent with the privacy risks associated with inappropriate exposure of the data. We applaud the ANPRM for recommendation that researchers be required to adopt security protections and urge that this provision be included in subsequent rulemakings on this topic.
- Our recommendations on Question 1 were directed in particular at provider entities; we believe the above recommendation to address Question 2 is relevant to all who use clinical data for secondary and research purposes. Most patients won't understand the difference between a "covered entity" and a "research entity", but will expect the same privacy and security standards to be applied to their data.

Conclusion

We appreciate the opportunity to provide these recommendations on secondary uses of EHR data for research uses, and look forward to discussing next steps.

Sincerely yours,

/s/

Paul Tang
Vice Chair, HIT Policy Committee

Appendix – Previous Policy Committee Recommendations from September 1, 2010



Health IT Policy Committee

A Public Advisory Body on Health Information Technology to the National Coordinator for Health IT

August 19, 2010

David Blumenthal, MD, MPP
Chair, HIT Policy Committee
U.S. Department of Health and Human Services
200 Independence Avenue, S.W.
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Dear Mr. Chairman:

An important strategic goal of the Office of the National Coordinator (ONC) is to build public trust and participation in health information technology (IT) and electronic health information exchange by incorporating effective privacy and security into every phase of health IT development, adoption, and use.

A Privacy and Security “Tiger Team,” formed under the auspices of the HIT Policy Committee, has met regularly and intensely since June to consider how to achieve important aspects of this goal.

The Tiger Team has focused on a set of targeted questions raised by the ONC regarding the exchange of personally identifiable health information required for doctors and hospitals to qualify for incentive payments under Stage I of the Electronic Health Records Incentives Program.

This letter details the Tiger Team’s initial set of draft recommendations for the HIT Policy Committee’s review and approval.

Throughout the process, the HIT Policy Committee has supported the overall direction of the Tiger Team’s evolving recommendations, which have been discussed in presentations during regular Policy Committee meetings this summer. There has always been an understanding, however, that the Tiger Team would refine its work and compile a set of formal recommendations at the end of summer for the HIT Policy Committee’s final review and approval.

It bears repeating: The following recommendations apply to electronic exchange of patient identifiable health information among known entities to meet Stage I of “meaningful use — the requirements by which health care providers and hospitals will be eligible for financial incentives for using health information technology. This includes the exchange of information for treatment and care coordination, certain quality

reporting to the Centers for Medicare & Medicaid Services (CMS), and certain public health reporting.

Additional work is needed to apply even this set of initial recommendations specifically to other exchange circumstances, such as exchanging data with patients and sharing information for research. We hope we will be able to address these and other key questions in the months to come.

Most importantly, the Tiger Team recommends an ongoing approach to privacy and security that is comprehensive and firmly guided by fair information practices, a well-established rubric in law and policy. We understand the need to address ad hoc questions within compressed implementation time frames, given the statutory deadlines of the EHR Incentives Program. However, ONC must apply the full set of fair information practices as an overarching framework to reach its goal of increasing public participation and trust in health IT.

I. FAIR INFORMATION PRACTICES AS THE FOUNDATION

Core Tiger Team Recommendation:

All entities involved in health information exchange – including providers⁶ and third party service providers like Health Information Organizations (HIOs) and other intermediaries – should follow the full complement of fair information practices when handling personally identifiable health information.

Fair information practices, or FIPs, form the basis of information laws and policies in the United States and globally. This overarching set of principles, when taken together, constitute good data stewardship and form a foundation of public trust in the collection, access, use, and disclosure of personal information.

We used the formulation of FIPs endorsed by the HIT Policy Committee and adopted by ONC in the *Nationwide Privacy and Security Framework for Electronic Exchange of Individually Identifiable Health Information*.⁷ The principles in the *Nationwide Framework* are:

- **Individual Access** – Individuals should be provided with a simple and timely means to access and obtain their individually identifiable health information in a readable form and format.
- **Correction** – Individuals should be provided with a timely means to dispute the accuracy or integrity of their individually identifiable health information, and to have erroneous information corrected or to have a dispute documented if their requests are denied.

⁶ Our recommendations are intended to broadly apply to both individual and institutional providers.

⁷ http://healthit.hhs.gov/portal/server.pt/gateway/PTARGS_0_10731_848088_0_0_18/NationwidePS_Framework-5.pdf.

- **Openness and Transparency** – There should be openness and transparency about policies, procedures, and technologies that directly affect individuals and/or their individually identifiable health information.
- **Individual Choice** – Individuals should be provided a reasonable opportunity and capability to make informed decisions about the collection, use, and disclosure of their individually identifiable health information. (This is commonly referred to as the individual’s right to consent to identifiable health information exchange.)
- **Collection, Use, and Disclosure Limitation** – Individually identifiable health information should be collected, used, and/or disclosed only to the extent necessary to accomplish a specified purpose(s) and never to discriminate inappropriately.
- **Data Quality and Integrity** – Persons and entities should take reasonable steps to ensure that individually identifiable health information is complete, accurate, and up-to-date to the extent necessary for the person’s or entity’s intended purposes and has not been altered or destroyed in an unauthorized manner.
- **Safeguards** – Individually identifiable health information should be protected with reasonable administrative, technical, and physical safeguards to ensure its confidentiality, integrity, and availability and to prevent unauthorized or inappropriate access, use, or disclosure.
- **Accountability** – These principles should be implemented, and adherence assured, through appropriate monitoring and other means and methods should be in place to report and mitigate non-adherence and breaches.

The concept of remedies or redress — policies formulated in advance to address situations where information is breached, used, or disclosed improperly — is not expressly set forth in this list (although it is implicit in the principle of accountability). As our work evolves toward a full complement of privacy policies and practices, we believe it will be important to further spell out remedies as an added component of FIPs.

We also note that in a digital environment, robust privacy and security policies should be bolstered by innovative technological solutions that can enhance our ability to protect information. This includes requiring that electronic record systems adopt adequate security protections (like encryption, audit trails, and access controls), but it also extends to decisions about infrastructure and how health information exchange will occur, as well as how consumer consents will be represented and implemented. The Tiger Team’s future work will need to address the role of technology in protecting privacy and security.

II. CORE VALUES

In addition to a firm embrace of FIPs, the Tiger Team offers the following set of **Core Values** to guide ONC’s work to promote health information technology:

- **The relationship between the patient and his or her health care provider is the foundation for trust in health information exchange, particularly with respect to protecting the confidentiality of personal health information.**
- **As key agents of trust for patients, providers are responsible for maintaining the privacy and security of their patients' records.**
- **We must consider patient needs and expectations. Patients should not be surprised about or harmed by collections, uses, or disclosures of their information.**
- **Ultimately, to be successful in the use of health information exchange to improve health and health care, we need to earn the trust of both consumers and physicians.**

III. SPECIFIC RECOMMENDATIONS REQUESTED

ONC has asked the Tiger Team for specific recommendations in the following areas:

- Use of intermediaries or third party service providers in identifiable health information exchange;
- Trust framework to allow exchange among providers for purpose of treating patients;
- Ability of the patient to consent to participation in identifiable health information exchange at a general level (i.e., yes or no), and how consent should be implemented;
- The ability of technology to support more granular patient consents (i.e., authorizing exchange of specific pieces of information while excluding other records); and
- Additional recommendations with respect to exchange for Stage I of Meaningful Use – treatment, quality reporting, and public health reporting.

All of our recommendations and deliberations have assumed that participating individuals and entities are in compliance with applicable federal and state privacy and security laws.

We evaluated these questions in light of FIPs and the core values discussed above.

1. Policies Regarding the Use of Intermediaries/Third Party Service Providers/Health Information Organizations (HIOs)

In the original deliberations of the Privacy and Security Work Group of the HIT Policy Committee, we concluded that directed exchange among a patient's treating providers – the sending of personally identifiable health information from “provider A to provider B” – is generally consistent with patient expectations and raises fewer privacy concerns, assuming that the information is sent securely.

However, the Tiger Team recognized that a number of exchange models currently in use are known to involve the use of intermediaries or third party organizations that offer valuable services to providers that often facilitate the effective exchange of identifiable health information (“third party service organizations”). A common example of a third party service organization is a Health Information Organization (HIO) (as distinguished from the term “health information exchange” (HIE), which can be used to refer to information exchange as a verb or a noun.) The exposure of a patient’s personally identifiable health information to third party service organization raises risk of disclosure and misuse, particularly in the absence of clear policies regarding that organization’s right to store, use, manipulate, re-use or re-disclose information.

Our recommendations below regarding third party service organizations aim to address the following fair information practices:

Individual Access

Correction

Openness and Transparency

Individual Choice

Collection, Use, and Disclosure Limitation

Data Quality and Integrity

Safeguards

Accountability

Tiger Team Recommendation 1: With respect to third-party service organizations:

- ***Collection, Use and Disclosure Limitation:*** Third party service organizations may not collect, use or disclose personally identifiable health information for any purpose other than to provide the services specified in the business associate or service agreement with the data provider, and necessary administrative functions, or as required by law.
- ***Time limitation:*** Third party service organizations may retain personally identifiable health information only for as long as reasonably necessary to perform the functions specified in the business associate or service agreement with the data provider, and necessary administrative functions. Retention policies for personally identifiable health information must be established, clearly disclosed to customers, and overseen. Such data must be securely returned or destroyed at the end of the specified retention period, according to established NIST standards and conditions set forth in the business associate or service agreement.
- ***Openness and transparency:*** Third party service organizations should be obligated to disclose in their business associate or service agreements with their customers how they use and disclose information, including without limitation their use and disclosure of de-identified data, their retention policies and procedures, and their data security practices.⁸
- ***Accountability:*** When such third party service organizations have access to personally identifiable health information, they must execute and be bound by business associate agreements under the Health Insurance Portability and Accountability Act regulations (HIPAA).⁹ However, it's not clear that those agreements have historically been sufficiently effective in limiting a third-party's use or disclosure of identifiable information, or in providing the required transparency.
- While significant strides have been made to clarify how business associates may access, use and disclose information received from a covered entity, business associate agreements, by themselves, do not address the full complement of governance issues, including oversight, accountability, and enforcement. We recommend that the HIT Policy Committee oversee further work on these governance issues.

⁸ This is the sole recommendation in this letter that also applies to data that qualifies as de-identified under HIPAA. The "Tiger Team" intends to take up de-identified data in a more comprehensive way in subsequent months.

⁹ 45 CFR 164.504(e).

2. Trust Framework For Exchange Among Providers for Treatment

The issue of provider identity and authentication is at the heart of even the most basic exchange of personally identifiable health information among providers for purposes of a patient's treatment. To an acceptable level of accuracy, Provider A must be assured that the information intended for provider B is in fact being sent to provider B; that providers on both ends of the transaction have a treatment relationship with the subject of the information; and that both ends are complying with baseline privacy and security policies, including applicable law.

Our recommendations below regarding trusted credentialing aim to address the following fair information practices:

Individual Access

Correction

Openness and Transparency

Individual Choice

Collection, Use, and Disclosure Limitation

Data Quality and Integrity

Safeguards

Accountability

Tiger Team Recommendation 2.1:

- **Accountability:** The responsibility for maintaining the privacy and security of a patient's record rests with the patient's providers, who may delegate functions such as issuing digital credentials or verifying provider identity, as long as such delegation maintains this trust.
 - To provide physicians, hospitals, and the public with an acceptable level of accuracy and assurance that this credentialing responsibility is being delegated to a "trustworthy" organization, the federal government (ONC) has a role in establishing and enforcing clear requirements about the credentialing process, which must include a requirement to validate the identity of the organization or individual requesting a credential.
 - State governments can, at their option, also provide additional rules for credentialing service providers so long as they meet minimum federal requirements.

We believe further work is necessary to develop policies defining the appropriate level of assurance for credentialing functions, and we hope to turn to this work in the fall.

A trust framework for provider-to-provider exchange also must provide guidance on acceptable levels of accuracy for determining whether both the sending and receiving provider each have a treatment relationship with the person who is the subject of the information being exchanged. Further, the trust framework should require transparency as to whether both senders and recipients are subject to baseline privacy and security policies. We offer the following recommendations on these points:

Tiger Team Recommendation 2.2:

- **Openness and transparency:** The requesting provider, at a minimum, should provide attestation of his or her treatment relationship with the individual who is subject of the health information exchange.
- **Accountability:** Providers who exchange personally identifiable health information should comply with applicable state and federal privacy and security rules. If a provider is not a HIPAA-covered entity or business associate, mechanisms to secure enforcement and accountability may include:
 - **Meaningful user criteria that require agreement to comply with the HIPAA Privacy and Security Rules;**
 - **NHIN conditions of participation;**
 - **Federal funding conditions for other ONC and CMS programs; and**
 - **Contracts/Business Associate agreements that hold all participants to HIPAA, state laws, and any other policy requirements (such as those that might be established as the terms of participation).**
- **Openness and transparency:** Requesting providers who are not covered by HIPAA should disclose this to the disclosing provider before patient information is exchanged.

3. Right of the patient or provider to consent to identifiable health information exchange at a general level — and how are such consents implemented

The Tiger Team was asked to examine the role that one of the fair information practices - individual choice or patient consent – should play in health information exchange. The recommendations cover the role of consent in directed exchange, triggers for when patient consent should be required (beyond what may already be required by law), the form of consent, and how consent is implemented. We also set forth recommendations on whether providers should be required to participate in certain forms of exchange. We must emphasize that looking at one element of FIPs in isolation is not optimal and our deliberations have assumed strong policies and practices in the other elements of FIPs required to support the role of individual consent in protecting privacy.

Our recommendations below regarding patient consent aim to address the following fair information practices:

Individual Access

Correction

Openness and Transparency

Individual Choice

Collection, Use, and Disclosure Limitation

Data Quality and Integrity

Safeguards

Accountability

A. Consent and Directed Exchange

Tiger Team Recommendation 3.1:

- **Assuming FIPs are followed, directed exchange for treatment does not require patient consent beyond what is required in current law or what has been customary practice.**

Our recommendation about directed exchange is not intended to change the patient-provider relationship or the importance of the provider's judgment in evaluating which parts of the patient record are appropriate to exchange for a given purpose. The same considerations and customary practices that apply to paper or fax exchange of patient health information should apply to direct electronic exchange. As always, providers should be prepared and willing to discuss with patients how their information is disclosed; to take into account patients' concerns for privacy; and also ensure the patient understands the information the receiving provider or clinician will likely need in order to provide safe, effective care.

B. Trigger for Additional Patient Consent

Tiger Team Recommendation 3.2:

- **When the decision to disclose or exchange the patient’s identifiable health information from the provider’s record is not in the control of the provider or that provider’s organized health care arrangement (“OHCA”),¹⁰ patients should be able to exercise meaningful consent to their participation. ONC should promote this policy through all of its levers.**
 - **Examples of this include:**
 - **A health information organization operates as a centralized model, which retains identifiable patient data and makes that information available to other parties.**
 - **A health information organization operates as a federated model and exercises control over the ability to access individual patient data.**
 - **Information is aggregated outside the auspices of the provider or OHCA and comingled with information about the patient from other sources.**
- **As we have noted previously, the above recommendation on consent applies to Stage 1 Meaningful Use (thus, if consent applies, it applies to exchange for treatment). We will need to consider potential additional triggers when we start to discuss exchange beyond Stage One of Meaningful Use.**
- **An important feature of meaningful consent criteria, outlined further below, is that the patient be provided with an opportunity to give meaningful consent before the provider releases control over exchange decisions. If the patient does not consent to participate in an HIO model that “triggers”**

¹⁰ *Organized health care arrangement* (45 CFR 160.103) means:

(1) A clinically integrated care setting in which individuals typically receive health care from more than one health care provider;

(2) An organized system of health care in which more than one covered entity participates and in which the participating covered entities:

(i) Hold themselves out to the public as participating in a joint arrangement; and

(ii) Participate in joint activities that include at least one of the following:

(A) Utilization review, in which health care decisions by participating covered entities are reviewed by other participating covered entities or by a third party on their behalf;

(B) Quality assessment and improvement activities, in which treatment provided by participating covered entities is assessed by other participating covered entities or by a third party on their behalf; or

(C) Payment activities, if the financial risk for delivering health care is shared, in part or in whole, by participating covered entities through the joint arrangement and if protected health information created or received by a covered entity is reviewed by other participating covered entities or by a third party on their behalf for the purpose of administering the sharing of financial risk.

[provisions applicable to health plans omitted]

consent, the provider should, alternatively, exchange information through directed exchange. There are some HIOs that offer multiple services. The provider may still contract with an HIO to facilitate directed exchange as long as the arrangement meets the requirements of recommendation 1 of this letter.

C. Form of Consent

Consent in our discussions refers to the process of obtaining permission from an individual to collect, use or disclose her personal information for specified purposes. It is also an opportunity to educate consumers about the decision, its potential benefits, its boundaries, and its risks.

While the debate about consent often devolves into a singularly faceted discussion of opt-in or opt-out, we have come to the conclusion that both opt-in and opt-out can be implemented in ways that fail to permit the patient to give meaningful consent. For example, consider the case in which patients are provided with opt-in consent, but the exercise of consent and education about it are limited – the registration desk provides the patient with a form that broadly describes all HIO uses and disclosures and the patient is asked to check a box and consent to all of it. As another example, consider the case in which patients have a right to opt-out – but the patient is not provided with time to make the decision and information about the right or how to exercise it can only be found in a poster in the provider’s waiting room or on a page of the HIO’s website. It would jeopardize the consumer trust necessary for HIOs to succeed to simply provide guidance to use “opt-in” or “opt-out” without providing additional guidance to assure that the consent is meaningful.

Tiger Team Recommendation 3.3: Meaningful Consent Guidance When Trigger Applies

In a circumstance where patient’s consent is “triggered,” such consent must be meaningful¹¹ in that it:

- **Allows the individual advanced knowledge/time to make a decision. (e.g., outside of the urgent need for care.)**
- **Is not compelled, or is not used for discriminatory purposes. (e.g., consent to participate in a centralized HIO model or a federated HIO model is not a condition of receiving necessary medical services.)**
- **Provides full transparency and education. (I.e., the individual gets a clear explanation of the choice and its consequences, in consumer-friendly language that is conspicuous at the decision-making moment.)**
- **Is commensurate with the circumstances. (I.e., the more sensitive, personally exposing, or inscrutable the activity, the more specific the consent mechanism. Activities that depart significantly from patient reasonable expectations require greater degree of education, time to make decision, opportunity to discuss with provider, etc.)**
- **Must be consistent with reasonable patient expectations for privacy, health, and safety; and**
- **Must be revocable. (I.e., patients should have the ability to change their consent preferences at any time. It should be clearly explained whether such changes can apply retroactively to data copies already exchanged, or whether they apply only "going forward.")**

D. Consent Implementation Guidance

Further considerations for implementation includes the following guidance:

Tiger Team Recommendation 3.4 :

- **Based on our core values, the person who has the direct, treating relationship with the individual, in most cases the patient’s provider, holds the trust relationship and is responsible for educating and discussing with patients about how information is shared and with whom.**
- **Such education should include the elements required for meaningful choice, as well as understanding of the “trigger” for consent (I.e., how information is being accessed, used and disclosed).**
- **The federal government has a significant role to play and a responsibility to educate providers and the public (exercised through policy levers).**

¹¹ <http://www.connectingforhealth.org/phti/reports/cp3.html>

- **ONC, regional extension centers, and health information organizations should provide resources to providers, model consent language, and educational materials to demonstrate and implement meaningful choice. HIOs should also be transparent about their functions/operations to both providers and patients.**
- **The provider/provider entity is responsible for obtaining and keeping track of patient consent (with respect to contribution of information from their records.) However, the provider may delegate the management/administrative functions to a third party (such as an HIO), with appropriate oversight.**

E. Provider Consent to Participate in Exchange

The Tiger Team was asked whether providers should have a choice about participating in exchange models.

Tiger Team Recommendation 3.5: Yes! Based on the context of Stage I Meaningful Use, which is a voluntary program, ONC is not requiring providers to participate in any particular health information exchange.

4. The current ability of technology to support more granular patient consents.

Our recommendations below regarding granular consent aim to address the following fair information practices:

Individual Access

Correction

Openness and Transparency

Individual Choice

Collection, Use, and Disclosure Limitation

Data Quality and Integrity

Safeguards

Accountability

In making recommendations about granular consent and sensitive data, we have the following observations:

- All health information is sensitive, and what patients deem to be sensitive is likely to be dependent on their own circumstances.
- However, the law recognizes some categories of data as being more sensitive than others.

- Unless otherwise required by law and consistent with our previous recommendation 3.1, with respect to directed exchange for treatment, the presence of sensitive data in the information being exchanged does not trigger an additional requirement to obtain the patient’s consent in the course of treating a patient.
- Our recommendations on consent do not make any assumptions about the capacity for an individual to exercise granular control over their information. But since this capability is emerging and its certainly fulfills the aspiration of individual control, we sought to understand the issue in greater depth.
- The Tiger Team considered previous NVHS letters and received a presentation of current NCVHS efforts on sensitive data. We also held a hearing on this topic to try to understand whether and how current EHR technology supports the ability for patients to make more granular decisions on consent – in particular, to give consent to the providers to transmit only certain parts of their medical record.
- We learned that many EHR systems have the capability to suppress psychotherapy notes (narrative). We also learned that some vendors offer the individual the ability to suppress specific codes. We believe this is promising. With greater use and demand, this approach could possibly drive further innovations.
- We also note, however, that the majority of witnesses with direct experience in offering patients the opportunity for more granular control indicated that most patients¹² agreed to the use of their information generally and did not exercise granular consent options when offered the opportunity to do so. The Tiger Team also learned that the filtering methodologies are still evolving and improving, but that challenges remain, particularly in creating filters that can remove any associated or related information not traditionally codified in standard or structured ways.
- While it is common for filtering to be applied to some classes of information by commercial applications based on contractual or legal requirements, we understand that most of the commercial EHR systems today do not provide this filtering capability at the individual patient level. There are some that have the capability to allow the user to set access controls by episode of care/encounter/location of encounter, but assuring the suppression of all information generated from a particular episode (such as prescription information) is challenging.
- Preventing what may be a downstream clinical inference is clearly a remaining challenge and beyond the state of the art today. Even with the best filtering it is hard to guarantee against “leaks.”

¹² Witnesses offered estimates of greater than 90%.

- The Tiger Team believes that methodologies and technologies that provide filtering capability are important in advancing trust and should be further explored. There are several efforts currently being piloted in various stages of development. We believe communicating with patients about these capabilities today still requires a degree of caution and should not be over sold as fail-proof, particularly in light of the reality of downstream inferences and the current state of the art with respect to free text. Further, communicating to patients the potential implications of fine-grained filtering on care quality remains a challenge.
- We acknowledge that even in the absence of these technologies, in very sensitive cases there are instances where a completely separate record may be maintained and not released (abortion, substance abuse treatment, for example). It is likely that these practices will continue in ways that meet the expectations and needs of providers and patients.
- In our ongoing deliberations, we discussed the notion of consent being bound to the data such that it follows the information as it flows across entities. We know of no successful large-scale implementation of this concept in any other sector (in that it achieved the desired objective), including in the case of digital rights management (DRM) for music. Nonetheless, we understand that work is being done in this emerging area of technology, including by standards organizations.
- While popular social networking sites are exploring allowing users more granular control (such as Facebook), the ability of individuals to exercise this capability as intended is still unclear.¹³ In addition, the data that populates a Facebook account is under the user's control and the user has unilateral access to it. Health data is generated and stored by myriad of entities in addition to the patient.
- Even the best models of PHRs or medical record banks provide individuals with control over copies of the individual's information. They do not provide control over the copy of the information under the provider's control or that is generated as a part of providing care to the patient. They also do not control the flow of information once the patient has released it or allowed another entity to have access to it.
- Discussions about possible or potential future solutions were plentiful in our deliberations. But the Tiger Team believes that solutions must be generated out of further innovation and, critically, testing of implementation experience.
- The Tiger Team also considered previous NCVHS letters and received a presentation of current NCVHS efforts on sensitive data.

¹³ See <http://www.nytimes.com/2010/05/13/technology/personaltech/13basics.html> and <http://www.nytimes.com/interactive/2010/05/12/business/facebook-privacy.html>.

- The Tiger Team therefore asked whether and what actions ONC might take to stimulate innovation and generate more experience about how best to enable patients to make more granular consent decisions.

Tiger Team Recommendation 4: Granular Consent

- **The technology for supporting more granular patient consent is promising but is still in the early stages of development and adoption. Furthering experience and stimulating innovation for granular consent are needed.**
- **This is an area that should be a priority for ONC to explore further, with a wide vision for possible approaches to providing patients more granular control over the exchange and use of their identifiable health information, while also considering implications for quality of care and patient safety, patient educational needs, and operational implications.**
- **The goal in any related endeavor that ONC undertakes should not be a search for possible or theoretical solutions but rather to find evidence (such as through pilots) for models that have been implemented successfully and in ways that can be demonstrated to be used by patients and fulfill their expectations. ONC and its policy advising bodies should be tracking this issue in an ongoing way and seeking lessons learned from the field as health information exchange matures.**
- **In the interim, and in situations where these technical capabilities are being developed and not uniformly applied, patient education is paramount: Patients must understand the implications of their decisions and the extent to which their requests can be honored, and we encourage setting realistic expectations. This education has implications for providers but also for HIOs and government.**

5. Exchange for Stage 1 of Meaningful Use – Treatment, Quality reporting, Public health reporting

Our additional recommendations below regarding Stage 1 of Meaningful Use aim to address the following fair information practices:

Individual Access

Correction

Openness and Transparency

Individual Choice

Collection, Use, and Disclosure Limitation

Data Quality and Integrity

Safeguards

Accountability

Tiger Team Recommendation 5:

- **Individual Consent:** The exchange of identifiable health information for “treatment” should be limited to treatment of the individual who is the subject of the information, unless the provider has the consent of the subject individual to access, use, exchange or disclose his or her information to treat others. (We note that this recommendation may need to be further refined to ensure the appropriate care of infants or children when a parent’s or other family members information is needed to provide treatment and it is not possible or practical to obtain even a general oral assent to use a parent’s information.)
- **Collection, Use and Disclosure Limitation:** Public health reporting by providers (or HIOs acting on their behalf) should take place using the least amount of identifiable data necessary to fulfill the lawful public health purpose for which the information is being sought. Providers should account for disclosure per existing law. More sensitive identifiable data should be subject to higher levels of protection.
 - In cases where the law requires the reporting of identifiable data (or where identifiable data is needed to accomplish the lawful public health purpose for which the information is sought), identifiable data may be sent. Techniques that avoid identification, including pseudonymization, should be considered, as appropriate.
- **Collection, use and Disclosure Limitation:** Quality data reporting by providers (or HIOs acting on their behalf) should take place using the least amount of identifiable data necessary to fulfill the purpose for which the information is being sought. Providers should account for disclosure. More sensitive identifiable data should be subject to higher levels of protection.
- The provider is responsible for disclosures from records under its control, but may delegate lawful quality or public health reporting to an HIO (pursuant to a business associate agreement) to perform on the provider’s behalf; such delegation may be on a “per request” basis or may be a more general delegation to respond to all lawful requests.

IV. CONCLUSION

The foregoing recommendations were targeted to address set of questions raised by ONC. They should not be taken as the definitive or final word on privacy and security and health IT/health information exchange; they are instead a set of concrete steps that the Tiger Team believes are critical to establishing and maintaining trust. As we have said from the outset, these recommendations can only deliver the trust necessary when they are combined with the full implementation of all the FIPs. Only a systemic and comprehensive approach to privacy and security can achieve confidence among the public. In particular, our recommendations do not address directly the need to also

establish individual access, correction and safeguards capabilities, and we recommend these be considered closely in the very near future, in conjunction with a further detailed assessment of how the other FIPs are being implemented.

We look forward to continuing to work on these issues.

Sincerely,

A handwritten signature in black ink that reads "Deven McGraw". The signature is written in a cursive style with a prominent initial "D".

Deven McGraw
Chair

A handwritten signature in blue ink that reads "Paul Egerman". The signature is written in a cursive style with a prominent initial "P".

Paul Egerman
Co-Chair

Appendix A—Tiger Team Members

Deven McGraw, Chair, Center for Democracy & Technology

Paul Egerman, Co-Chair,

Dixie Baker, SAIC

Christine Bechtel, National Partnership for Women & Families

Rachel Block, NYS Department of Health

Carol Diamond, Markle Foundation

Judy Faulkner, EPIC Systems Corp.

Gayle Harrell, Consumer Representative/Florida

John Houston, University of Pittsburgh Medical Center; NCVHS

David Lansky, Pacific Business Group on Health

David McCallie, Cerner Corp.

Wes Rishel, Gartner

Latanya Sweeney, Carnegie Mellon University

Micky Tripathi, Massachusetts eHealth Collaborative