

REPORT OF THE COUNCIL ON ETHICAL AND JUDICIAL AFFAIRS\*

CEJA Report 3-A-09

Subject: A Physician's Role Following a Breach of Electronic Health Information

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Referred to: Reference Committee on Amendments to Constitution and Bylaws  
(Daniel W. Van Heeckeren, MD, Chair)

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1 Adopted Resolution 9 (A-08) asked our American Medical Association (AMA) to study the  
2 physician's role in informing a patient when the physician has reason to believe the individual's  
3 protected health information has been inappropriately disclosed. A physician's obligation to respect  
4 confidentiality and guard a patient's privacy is a well-established principle of professional ethics  
5 that dates back to the Hippocratic Oath.<sup>1</sup> The AMA's Code of Medical Ethics, in Opinion E-5.07,  
6 "Confidentiality: Computers," (AMA Policy Database) sets out precautionary steps to protect the  
7 confidentiality of electronically stored health information.<sup>2</sup> However, current policy does not  
8 address physicians' ethical responsibilities in the event the security of electronic records is  
9 breached and patient data are inappropriately accessed. This report examines physicians'  
10 professional ethical responsibility in this area.

11  
12 ELECTRONIC MEDICAL RECORDS (EMR)

13  
14 Health information is "central to the practice of medicine and the quality of health care."<sup>3</sup> The  
15 capacity of electronic medical records (EMRs, also referred to as "electronic health records,"  
16 EHRs) to store, access, and transmit detailed patient information accurately and rapidly among  
17 physicians and other health care professionals, health care administrators, and payers can greatly  
18 enhance patient care and the efficiency of the health care system overall. At the level of individual  
19 patient care, EMRs can support functions that are impossible or cumbersome to implement in paper  
20 record systems, including clinical reminders, drug interaction alerts, physician order entry systems,  
21 and decision support tools.<sup>4,5</sup> At the level of the health care system, EMRs can facilitate  
22 administrative operations as well as enable access to population-level data for quality  
23 improvement, public health, and research purposes.<sup>6,7</sup>

24  
25 Physicians in the U.S. have been adopting EMRs in greater numbers in recent years. In a 2008  
26 survey, 38.4% of physicians reported using fully or partially functional EMR systems, not  
27 including billing records, in their office-based practices.<sup>8</sup> These numbers represent a significant  
28 increase from 2001, when 18.2% of physicians reported using EMRs in their office-based  
29 practices.<sup>9,10</sup> However, the collection, storage, and management of health information in the U.S. is  
30 carried out by numerous, diverse public and private institutions. The flow of medical information  
31 from patient to health care provider to health insurance industry and beyond is conducted with

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1 limited regulation and oversight. Existing data security laws and agencies have been characterized  
2 as a “confusing, sometimes conflicting, patchwork” of policies.<sup>4</sup> The combination of these factors  
3 may be contributing to breaches of EMRs. Physicians need guidance about their responsibilities  
4 when the confidentiality of patients’ electronic personal health information has been  
5 compromised.<sup>11</sup>

## 6 7 SECURITY BREACHES AND HARM TO PATIENTS

8  
9 Recent developments have significantly increased the potential harms that can result when EMR  
10 systems are breached. For one, there has been a trend in recent years to gather and record more  
11 detailed information in medical records.<sup>12</sup> For another, the range of uses to which EMR systems are  
12 put have expanded. The aggregated nature of EMRs facilitates secondary use indirectly related to  
13 patient care, such as clinical research; quality measurement, reporting, and improvement; public  
14 health; marketing; and managed care decision-making.<sup>7, 13</sup>

15  
16 The potential for harm from a security breach may depend on several factors, including the intent  
17 of the perpetrators of the breach, nature of the information that was breached, and to whom the  
18 information was disseminated. Still, the detailed and complex patterns of collecting and using  
19 patient information in today’s health care environment mean that the risk of harm to patients from  
20 security breaches is higher than ever before. One profound harm may be medical identity theft, the  
21 fastest growing form of identity theft.<sup>14, 15</sup> Medical identity theft can result not only in  
22 inconvenience, discrimination, or negative effects on a victim’s credit rating, but can pose harms  
23 specifically related to health care in the form of improper exhaustion of insurance benefits,  
24 wrongful billing for the costs of the thief’s health care, and the burden of proving that the victim  
25 isn’t responsible for such charges and can adversely affect insurability. Of particular concern are  
26 the potential adverse effects of such theft on a victim’s subsequent health care, notably  
27 inappropriate care based on erroneous entries in his or her record.<sup>3, 15</sup>

28  
29 Beyond this sort of material harm that may follow from inappropriate disclosure of a patient’s  
30 personal health information are the dignitary harms that result. The commitment to benefit the  
31 patient is a basic tenet of a physician’s professional ethic.<sup>16-18</sup> Effective healing cannot take place  
32 without a patient-physician relationship that rests on the physician’s competence, skills, and good  
33 will.<sup>19</sup> The healing encounter is one in which the physician claims the necessary expertise and  
34 dedication to help and (implicitly) invites the vulnerable patient’s trust.<sup>20</sup> The physician is  
35 accountable to his or her patients in this relationship of fidelity in trust.<sup>21</sup> Trust is fragile in today’s  
36 health care system as patients increasingly question physicians’ loyalty in the face of physicians’  
37 competing commitments to the interests of managed care plans, jobs, or incomes.<sup>19</sup>

38  
39 The commitment to benefit patients also entails respecting a patient’s freedom to act in accord with  
40 his or her values and sense of self.<sup>1</sup> Inappropriate disclosure of a patient’s personal information  
41 violates his or her right to (informational) privacy, a fundamental expression of autonomy.

## 42 43 LEGAL ENVIRONMENT

44  
45 Currently, 44 states require companies doing business in their state to advise residents when the  
46 residents’ information may have been compromised.<sup>15</sup> These laws were intended to make victims  
47 of a data breach aware of the increased danger of identity theft so that they could take action to  
48 protect themselves. Many medical records, e.g., those that contain a patient’s name and social

1 security number, could fall under such state statutes. California recently broadened its notification  
2 law to explicitly apply to medical or health insurance-related information.<sup>22</sup>

3  
4 Until recently, federal law unfortunately provided little specific guidance for how privacy interests  
5 in identifiable health information are protected in the event of a breach. While the Health Insurance  
6 Portability and Accountability Act (HIPAA) established national standards for privacy and security  
7 designed to protect the confidentiality and integrity of electronic personal health information, it  
8 does not advise physicians or administrators how to respond in the event of an actual security  
9 breach.<sup>23</sup>

10  
11 However, disclosure is now required by the newly enacted American Recovery and Reinvestment  
12 Act of 2009 (ARRA). The portion of the act devoted to health information technology, known as  
13 the Health Information Technology for Economic and Clinical Health Act of 2009 (HITECH Act),  
14 strengthens existing federal privacy and security provisions and mandates that a health care  
15 provider notify data subjects when the provider knows or has reason to believe the individuals'  
16 information has been inappropriately disclosed.<sup>24</sup> The law provides detailed guidance on what is  
17 considered a "breach," outlines appropriate methods of notification, and specifies the content  
18 which must be included in the notice to the extent possible.<sup>24</sup> Wherever ARRA contains stricter  
19 health-related privacy and security measures than state law, this federal law takes precedence.  
20 ARRA also requires HHS to issue regulations on breach notification requirements by August 16,  
21 2009.

## 22 23 IMPLICATIONS FOR ETHICAL PRACTICE

24  
25 Helping to restore a sense of control over health records to the patient is of great moral import.  
26 Indeed, studies consistently show that patients prefer to be informed of breaches of their health  
27 records or other medical errors.<sup>25</sup> Voluntarily disclosing to a patient that his or her information has  
28 (or may have) been inappropriately disclosed when the patient may otherwise be unaware of the  
29 breach respects the patient's dignity and supports his or her right to take appropriate steps to avert  
30 or minimize potential harms. Beyond fulfilling the physician's obligation to be candid with  
31 patients, disclosing the incident and taking time to discuss possible harms and potential means of  
32 averting them may enhance trust. Conversely, the lack of disclosure may erode trust, especially if it  
33 leads to harm.

34  
35 The patient safety movement has made it clear how difficult it can be for health care professionals  
36 to take responsibility for an event that has created a significant risk of harm or has caused harm.  
37 Like being candid with a patient about a medical error, being candid with a patient when his or her  
38 information has been inappropriately disclosed may be difficult or uncomfortable. However, this  
39 does not change the fact that it is the ethically appropriate response.

40  
41 The material cost of adequately responding to a breach of security can be significant in terms of  
42 actual costs associated with the loss of patients, recruitment of new patients, and damage to the  
43 reputation of the physician, practice or institution. However, evidence has shown that litigation  
44 rates and related costs decrease when errors are promptly disclosed to patients and families.<sup>26-28</sup>  
45 It is also important to keep in mind that security measures and breach notice requirements  
46 should be practical and affordable so as to not hinder the ability of physicians to operate  
47 their practices and care for their patients.

1 The emotional toll on physicians relaying bad news can be burdensome, particularly given the  
2 value the profession places on confidence, authority, and “perfection.” Unfortunately, in some  
3 institutions a culture of silence impedes admitting error or implicating colleagues. Yet evidence  
4 suggests that disclosure may alleviate some of the burdens associated with knowing about a  
5 situation that might cause harm to patients.<sup>29</sup> Institutional efforts to support candor and  
6 transparency may not only help alleviate emotional discomfort, but also help prevent similar errors  
7 in the future by raising awareness and increasing caution. More importantly, the commitment to  
8 uphold trust in the patient-physician relationship, to prevent harms to patients, and to respect  
9 patient autonomy form a compelling basis for a physician’s involvement in efforts to promptly  
10 disclose security breaches that pose a risk of harm. This commitment also supports an obligation to  
11 assist patients to minimize potential adverse consequences of disclosure of personal health  
12 information—for example, sharing information on steps individuals should take to protect  
13 themselves from potential harm resulting from the breach such as using credit monitoring services,  
14 an identity theft hotline or other services.

15  
16 A physician’s responsibility to notify patients of an inappropriate disclosure and to take steps to  
17 help mitigate potential adverse consequences is not without limit.<sup>30</sup> A physician’s ability to act may  
18 be limited by several factors, including what relationship the physician has with the affected patient  
19 or what his or her administrative authority is. A physician who is not in a position to have personal  
20 knowledge that a breach has occurred or take effective action to prevent breaches—for example,  
21 who works in a large health care institution whose EMR system is managed by others—has  
22 relatively limited responsibilities. In such circumstances, physicians might join others in the  
23 institution to make sure that the institution takes appropriate action. Physicians in solo or small  
24 group practices or those who are institutionally responsible for ensuring the security and integrity  
25 of electronic health information have a more immediate responsibility, both to ensure the security  
26 of their EMRs and to notify patients when information has been inappropriately disclosed.

27  
28 Whatever the nature of the physician’s involvement, in dealing with inappropriate disclosure of  
29 patient information the physician should place the interests of affected patients above the interests  
30 of their practices or institutions. The commitment to affected patients should be tempered only by  
31 potential harms of equal magnitude to other patients. Such patient advocacy may take courage, but  
32 courage is implicit within a physicians’ dedication to the well-being of their patients and their  
33 commitment to being trustworthy.<sup>21</sup>

34  
35 Disclosure of a breach should occur as soon as practicable and in accordance with statutory  
36 timelines after the breach is known and should be carried out in a way that minimizes patients’  
37 distress and respectfully restores their control over their own privacy. Like relaying other “bad  
38 news,” disclosing a breach in health records should generally occur in a setting conducive to  
39 discussion. A private place and adequate time may need to be set aside for this purpose.<sup>29</sup>

40  
41 At minimum, the discussions should include a thorough explanation of what information was or  
42 might have been disclosed and how the breach happened, its potential negative consequences, the  
43 corrective actions that have been and will be taken by the institution or practice, and the steps that  
44 patients themselves could take to mitigate potential harm. The physician making the disclosure  
45 should communicate regret and avoid behaving defensively.

46  
47 These suggestions are not intended to be comprehensive. They define a starting point from which  
48 to develop appropriate responses in light of the particular circumstances of a given breach and

1 medicine's fundamental ethical obligations to patients whose personal health information is  
2 inappropriately disclosed.

3  
4 RECOMMENDATION

5  
6 The Council on Ethical and Judicial Affairs recommends that the following be adopted and the  
7 remainder of the report be filed:

8  
9 When used with appropriate attention to security, electronic medical records (EMRs) promise  
10 numerous benefits for quality clinical care and health-related research. However, when a  
11 security breach occurs, patients may face physical, emotional, and dignitary harms.

12  
13 Dedication to upholding trust in the patient-physician relationship, to preventing harms to  
14 patients, and to respecting patients' privacy and autonomy create responsibilities for individual  
15 physicians, medical practices, and health care institutions when patient information is  
16 inappropriately disclosed. The degree to which an individual physician has an ethical  
17 responsibility to address inappropriate disclosure depends in part on his or her awareness of the  
18 breach, relationship to the patient(s) affected, administrative authority with respect to the  
19 records, and authority to act on behalf of the practice or institution.

20  
21 When there is reason to believe that patients' confidentiality has been compromised by a  
22 breach of the electronic medical record, physicians should:

- 23  
24 (1) Ensure that patients are promptly informed about the breach and potential for harm,  
25 either by disclosing directly (when the physician has administrative responsibility for  
26 the EMR), participating in efforts by the practice or health care institution to disclose,  
27 or ensuring that the practice or institution takes appropriate action to disclose.  
28  
29 (2) Follow ethically appropriate procedures for disclosure, which should at minimum  
30 include:  
31  
32 (a) carrying out the disclosure confidentially and within a time frame that provides  
33 patients ample opportunity to take steps to minimize potential adverse  
34 consequences; and  
35  
36 (b) describing what information was breached; how the breach happened; what the  
37 consequences may be; what corrective actions have been taken by the physician,  
38 practice, or institution; and what steps patients themselves might take to minimize  
39 adverse consequences.  
40  
41 (3) Support responses to security breaches that place the interests of patients above those  
42 of the physician, medical practice, or institution.  
43  
44 (4) To the extent possible, provide information to patients to enable them to mitigate  
45 potential adverse consequences of inappropriate disclosure of their personal health  
46 information, such as credit monitoring services or identity theft hotline.

47  
48 (New HOD/CEJA Policy)

Fiscal Note: Staff cost estimated at less than \$500 to implement.

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