



# Standard Guide for Information Access Privileges to Health Information<sup>1</sup>

This standard is issued under the fixed designation E1986; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

## 1. Scope\*

1.1 This guide covers the process of granting and maintaining access privileges to health information. It directly addresses the maintenance of confidentiality of personal, provider, and organizational data in the healthcare domain. It addresses a wide range of data and data elements not all traditionally defined as healthcare data, but all elemental in the provision of data management, data services, and administrative and clinical healthcare services. In addition, this guide addresses specific requirements for granting access privileges to patient-specific health information during health emergencies.

1.2 This guide is based on long-term existing and established professional practices in the management of healthcare administrative and clinical data. Healthcare data, and specifically healthcare records (also referred to as medical records or patient records), are generally managed under similar professional practices throughout the United States, essentially regardless of specific variations in local, regional, state, and federal laws regarding rules and requirements for data and record management.

1.3 This guide applies to all individuals, groups, organizations, data-users, data-managers, and public and private firms, companies, agencies, departments, bureaus, service-providers, and similar entities that collect individual, group, and organizational data related to health care.

1.4 This guide applies to all collection, use, management, maintenance, disclosure, and access of all individual, group, and organizational data related to health care.

1.5 This guide does not attempt to address specific legislative and regulatory issues regarding individual, group, and organizational rights to protection of privacy.

1.6 This guide covers all methods of collection and use of data whether paper-based, written, printed, typed, dictated, transcribed, forms-based, photocopied, scanned, facsimile, telefax, magnetic media, image, video, motion picture, still

picture, film, microfilm, animation, 3D, audio, digital media, optical media, synthetic media, or computer-based.

1.7 This guide does not directly define explicit disease-specific and evaluation/treatment-specific data control or access, or both. As defined under this guide, the confidential protection of elemental data elements in relation to which data elements fall into restrictive or specifically controlled categories, or both, is set by policies, professional practice, and laws, legislation and regulations.

## 2. Referenced Documents

### 2.1 ASTM Standards:<sup>2</sup>

- E1869 Guide for Confidentiality, Privacy, Access, and Data Security Principles for Health Information Including Electronic Health Records
- E2595 Guide for Privilege Management Infrastructure

## 3. Terminology

### 3.1 Definitions:

3.1.1 *access*—the provision of an opportunity to approach, inspect, review, retrieve, store, communicate with, or make use of health information system resources (for example, hardware, software, systems, or structure) or patient identifiable data and information, or both. **(E1869)**

3.1.2 *access control*—the prevention of unauthorized use of a resource, including the prevention of use of a resource in an unauthorized manner.

3.1.2.1 *Discussion*—Access control counters the threat of unauthorized access to, disclosure of, or modification of data. **(ISO 7498-2)**

3.1.3 *accountability*—the property that ensures that the actions of an entity can be traced. **(ISO 7498-2)**

3.1.4 *audit trail*—data collected and potentially used to facilitate a security audit. **(ISO 7498-2)**

3.1.5 *authentication*—the corroboration that an entity is the one claimed. **(ISO 7498-2)**

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<sup>2</sup> For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

\*A Summary of Changes section appears at the end of this standard

3.1.6 *authorize*—the granting to a user the right of access to specified data and information, a program, a terminal, or a process. **(E1869)**

3.1.7 *authorization*—(1) The granting of rights, which includes the granting of access based on access rights. (2) The mechanism for obtaining consent for the use and disclosure of health information. **(ISO 7498-2, CPRI, AHIMA)**

3.1.8 *confidential*—status accorded to data or information indicating that it is sensitive for some reason and needs to be protected against theft, disclosure, or improper use, or both, and must be disseminated only to authorized individuals or organizations with an approved need to know. Private information which is entrusted to another with the confidence that unauthorized disclosure that will be prejudicial to the individual will not occur. **(E1869)**

3.1.9 *confidentiality*—the property that information is not made available or disclosed to unauthorized individuals, entities, or processes. **(ISO 7498-2)**

3.1.10 *database*—a collection of data organized for rapid search and retrieval. **(Webster’s, 1993)**

3.1.11 *data element*—the combination of one or more data entities that forms a unit or piece of information, such as the social security number, a diagnosis, an address, or a medication.

3.1.12 *data entity*—a discrete form of data such as a number or word.

3.1.13 *disclosure (health care)*—the release of information to third parties within or outside the healthcare provider organization from an individual’s record with or without the consent of the individual to whom the record pertains.

3.1.13.1 *Discussion*—Under this guide the definition is slightly modified to read: the release of information to an individual, group or organization from an individual’s health information with or without the authorization of the individual to whom the health information pertains. **(CPRI)**

3.1.14 *emergency*—a sudden demand for action. Condition that poses an immediate threat to the health of the patient.

3.1.15 *healthcare data*—data which are input, stored, processed or output by the automated information system which support the business functions of the healthcare establishment. These data may relate to person identifiable records or may be part of an administrative system where persons are not identified. **(CEN)**

3.1.16 *health information*—any information, whether oral or recorded in any form or medium (1) that is created or received by a healthcare provider; a health plan; health researcher, public health authority, instructor, employer, school or university, health information service or other entity that creates, receives, obtains, maintains, uses, or transmits health information; a health oversight agency, a health information service organization, or (2) that relates to the past, present, or future physical or mental health or condition of an individual, the provision of health care to an individual, or the past, present, or

future payments for the provision of health care to a protected individual; and (3) that identifies the individual; with respect to which there is a reasonable basis to believe that the information can be used to identify the individual.

**(HIPAA, E1869)**

3.1.17 *information*—data to which meaning is assigned, according to context and assumed conventions.

**(National Security Council, 1991, E1869)**

### 3.2 *Definitions of Terms Specific to This Standard:*

3.2.1 *disclosure*—to release, transfer, or otherwise divulge protected health information to any entity other than the individual who is the subject of such information.

3.2.1.1 *external disclosure*—disclosure outside an organization.

3.2.1.2 *internal disclosure*—disclosure within an organization.

## 4. Significance and Use

4.1 The maintenance of confidentiality in paper-based, electronic, or computer-based health information requires that policies and procedures be in place to protect confidentiality. Confidentiality of information depends on structural and explicit mechanisms to allow persons or systems to define who has access to what, and in what situation that access is granted. For guidelines on the development and implementation of privilege management infrastructures supporting these mechanisms, see Guide E2595.

4.2 Confidential protection of data elements is a specific requirement. The classification of data elements into restrictive and specifically controlled categories is set by policies, professional practice, and laws, legislation, and regulations.

4.3 There are three explicit concepts upon which the use of and access to health information confidentiality are defined. Each of these concepts is an explicit and unique characteristic relevant to confidentiality, but only through the combination (convergence) of all three concepts can appropriate access to an explicit data element at a specific point in time be provided, and unauthorized access denied. The three concepts are:

4.3.1 The categorization and breakdown of data into logical and reasonable elements or entities.

4.3.2 The identification of individual roles or job functions.

4.3.3 The establishment of context and conditions of data use at a specific point in time, and within a specific setting.

4.4 The overriding principle in preserving the confidentiality of information is to provide access to that information only under circumstances and to individuals when there is an absolute, established, and recognized need to access that data, and the information accessed should itself be constrained only to that information essential to accomplish a defined and recognized task or process. Information nonessential to that task or process should ideally not be accessible, even though an individual accessing that information may have some general right of access to that information.

## 5. Principles

5.1 The following principles are based upon U.S. state and federal laws, current European Economic Community initiatives and laws and regulations resulting from those initiatives, and professional practice within the U.S. and European health-care domains.

5.2 Individuals, groups, and organizations retain rights over the specific, intermediate, and ultimate use of any data collected from them and about whom the data is retained and managed.

5.3 No individual, group, or organizational data shall be collected, used, maintained, released, or disclosed without the specific explicit informed consent of the individual, group, or organization, unless specifically required for the protection of public health, and mandated by local, state, regional, or federal law.

5.4 Individual, group, or organizational data may only be used for the purpose for which it was collected. Explicit informed consent of the individual, group, or organization from which the data was collected is required if the data is to be used for any additional purpose. Organizational policies shall state the purposes for which data will be collected, maintained, and used.

5.5 All individuals, groups, organizations, data-users, data-managers, and public and private firms, companies, agencies, departments, bureaus, service-providers, and similar entities that collect individual, group and healthcare related data, are required to collect, manage, maintain, disclose, provide access to, or release that data only in strict compliance with the data access rules defined in this guide. If they are unable to adhere to this guide they will not retain data beyond its initial collection and use, or will securely and confidentially entrust that data to an authorized organization that can abide by the rules under this guide.

5.6 Data and data elements under this guide are defined at a discrete level. This is necessary in order to define data access and use rights down to discrete elemental data. This guide is established under the assumption that there is no such thing as “dis-identified data” in that as long as data exist as discrete elemental data they are ultimately identifiable with an individual. For example a diagnosis or a patient weight is not dis-identified within a population just because it does not have a name or other outward identifying information attached or linked to it. The average weight within a population or the incidence of a given disease, both calculated or derived from a population aggregate, may be dis-identified from an individual within a population, but might still predispose the population to identification or prejudice. For example an “abnormal” average weight might increase the health risk to a population, therefore providing valuable preventative and epidemiological data, but if that data is assumed to be dis-identified and generally available for review, then it might allow population-based prejudicial pricing for healthcare services or insurance. Disease incidence can also be used to target populations at health risk, but if considered dis-identified and generally available for review, disease incidence can also be used to identify popula-

tions as to race, religion, ethnicity, genetics, sexual preferences, and other prejudicial indicators. The protection of individual, group, and organizational data confidentiality under this guide is, therefore, absolute and is always based upon the connection of that data to the individual, group, or organization from which the data was collected and for or about whom the data is retained and managed. No data is releasable as discrete data or discrete data-types under any assumption that since another related data element (for example, name, age, sex, address, etc.) was not released, that the data is no longer individual, group, or organizational data, or can no longer be identified or connected to any individual, group, or organization.

5.7 All access shall be explicitly authorized. Unauthorized access is explicitly forbidden.

## 6. Data Elements

6.1 Data elements under this guide represent fragmentation (separation) of data into discrete entities. These entities (data elements) represent discrete elemental data types that can be reconstructed into complete data sets according to varying needs and requirements of access and use, by appropriate data-users, under appropriately defined and authorized roles. Data elements exist as discrete data in their own right or can be aggregated as data sets that represent data about a specific individual, provider, group, or organization, or they can be aggregated across individuals, providers, groups, or organizations.

6.2 Data elements and data entities under this guide are explicitly delineated and apply to healthcare related data in aggregate as well as discrete forms.

6.3 If data exist in aggregate form and cannot be broken down or protected from improper use or disclosure at the data element or entity level, then the aggregate data itself cannot be released for use or disclosure to any data-user other than those who meet the access privilege rules for the most confidential data within that aggregate.

6.3.1 *Example*—HIV data within a document, even if only a small fraction of the content of that document, makes the entire document subject to the rules of disclosure defined for HIV data, unless that HIV data (or any other data of that class) can be stripped (removed) from the document.

6.3.2 In addition, if aggregate data is stripped of any non-disclosable data for disclosure to a data-user, then the disclosed data can have no evidence, sign, or indication of the fact that it was stripped of non-disclosable data. An exception under this requirement should be granted only in the instance where it is impossible or impractical to screen or filter confidential data from the aggregate form in which it was entered into the health record, such as handwritten or dictated and transcribed physician notes or histories and physicals that contain data of differing levels of confidentiality. In the instance of hand written or dictated and transcribed data, non-disclosable data should still be masked when these data are reviewed or accessed by data-users without appropriate authorization to review and access the most confidential elemental data within that data set.

6.4 This guide does not put any explicit restrictions on the type or format of health information content. An example set of data elements to illustrate the breakdown or partitioning of health information into confidential data sets that warrant differing levels of access are listed in **Table 1**. The presence of a data element or entity in that list is explicitly not a suggestion, requirement, or mandate to collect, store, or maintain that data element or entity. In fact, in the maintenance of confidentiality and privacy it is important to keep the minimum amount of data required to accomplish the specific tasks for which the data is being collected, disclosed, stored, and maintained. Note that data elements and entities in that list are not specifically in each instance of use necessarily defined as healthcare data. The list is comprised of data elements and entities that may, but are not required to be collected, utilized, stored, or maintained, or a combination thereof, in the process of providing healthcare administrative and clinical services.

**TABLE 1 Data Elements Warranting Differing Levels of Access Control**

Unique ID  
 Unique ID to Number Mapping(s)  
 Address(es)  
 Phone(s)  
 Electronic Mail Address(es)  
 Photograph(s)  
 Biometric Token(s) (fingerprint, retinal image, handwriting, signature, etc.)  
 Passwords, IDs, Authentication Data  
 Insurance (discretely defined by type)  
   Health  
     Auto  
     Workman's Compensation  
     Disability  
 Employment  
 Relatives  
 Genetic Data (discretely defined by type)  
 Blood Type  
 Family Health History  
 Race/Nationality/Ethnicity  
 Citizenship  
 Political Affiliation  
 Religion  
 Diet or Dietary Preferences  
 Sexual Preference  
 Personal Habits (discretely defined by type)  
 Immunizations  
 Advanced Directives  
 Power(s) Of Attorney  
 Living Wills  
 Allergies (discretely defined by type)  
 Adverse Reactions (discretely defined by type)  
 Diagnoses (discretely defined by type)  
 Problems (discretely defined by type)  
 Procedures (discretely defined by type)  
 Injuries (discretely defined by type)  
 Mental Health Problems/Diseases/Diagnoses (discretely defined by type)  
 Clinical Symptoms  
 Clinical Findings  
 Substance Use/Abuse  
 Health Care Encounter(s)  
   Encounter Type  
   Reason For Encounter  
   Disposition  
   Provider Identification  
   Procedure(s)  
   Problems(s)  
   Diagnosis(es)  
   Appointment(s)  
   Provider Encounter Record/SuperBill  
   Bill For Services  
   Claim Form(s)  
 Clerical Billing Process Documentation

Payment Form  
 Payment  
 Denial  
 Receipt Request  
 Receipt  
 Remittance Advice  
 Remittance  
 Financial Transaction  
 Request for Clarification  
 Adjudication  
 Consent Forms  
   Treatment/Admission  
   Procedure  
   Photography  
   Health Plan Membership  
   Data Rights, Ownership, and Disclosure (Data or Disclosure Request Forms)  
 Research  
 Protocol  
 Public Health Disclosure  
 Publication  
 Electronic Mail Messages  
 Fax(es)  
 Documentation  
   Triage Note(s)  
     Administrative  
     Physician  
     Non-physician Provider  
     Nursing  
     Pharmacy  
     Ancillary Services  
     Social Services  
     Ambulance (Transport) Run Sheet  
     Health Plan/Insurer  
   Telephone Note(s)  
     Administrative  
     Physician  
     Non-physician Provider  
     Nursing  
     Pharmacy  
     Ancillary Services  
     Social Services  
     Out-sourced Service Provider  
     Third Party Intermediary  
     Claims Clearing House  
     Health Plan/Insurer  
   Telephone Messages  
     To Administrative Personnel  
     To Physician(s)  
     To Non-physician Provider(s)  
     To Nursing  
     To Pharmacy  
     To Ancillary Services  
     To Social Services  
     Out-sourced Service Provider  
     Third Party Intermediary  
     Claims Clearing House  
     To Health Plan/Insurer  
     Coordinator Of Care / Services  
       Behavioral Health  
       Home Health  
 Correspondence  
   To Administrative Personnel  
   To Physician(s)  
   To Non-physician Provider(s)  
   To Nursing  
   To Pharmacy  
   To Ancillary Services  
   To Social Services  
   To Out-sourced Service Provider  
   Third Party Intermediary  
   To Claims Clearing House  
   To Health Plan/Insurer  
   To Billing Intermediary  
   To Government Agencies  
   To Accrediting Agencies  
   To Employers  
   To Schools and Educational Institutions  
   To Regulatory Agencies

- Consent, Access and Disclosure Notifications
- Outpatient Nursing Note(s)
- Inpatient Nursing Note(s)
- Home Health Nursing Note(s)
- Outpatient Pharmacy Note(s)
- Inpatient Pharmacy Note(s)
- Home Health Pharmacy Note(s)
- Outpatient Physician Note(s)
- Inpatient Physician Note(s)
- Home Health Physician Note(s)
- Outpatient Non-physician Provider Note(s)
- Inpatient Non-physician Provider Note(s)
- Home Health Non-physician Provider Note(s)
- Outpatient Ancillary Service Note(s)
- Inpatient Ancillary Service Note(s)
- Home Health Ancillary Service Note(s)
- Dictations and Transcriptions
  - Dictation(s)
  - Dictation Media
  - Transcription(s)
  - Transcriptionist's Notes
  - Administrative Notes
- Procedure Note(s)
  - Physician Procedure Note(s)
  - Non-physician Provider Procedure Note(s)
  - Nursing Procedure Note(s)
  - Ancillary Service Procedure Note(s)
  - Pharmacy Procedure Note(s)
- Operative Reports
  - Physician Operative Report(s)
  - Non-physician Provider Operative Report(s)
  - Nursing Operative Report(s)
  - Ancillary Service Operative Report(s)
  - Pharmacy Operative Report(s)
- Medication Related Requests and Notes
  - Medication Name(s)
  - Written Orders
  - Verbal Orders
  - Written Prescriptions
  - Verbal Prescriptions
  - Medication Administration Note(s) (MAR)
  - Medication Dispensing Note(s)
  - Medication Allergy/Adverse Reaction Note(s)
  - Medication Adverse Drug Event (ADE)
  - Medication Preparation Note(s)
  - Medication History
  - Pharmacy Claim
- Orders and Requests (representing orders/requests from provider or patient, where provider can be physician, advanced practice registered nurse, nurse, pharmacist, ancillary service, administration, or other)
  - Written Orders/Requests
  - Verbal Orders/Requests
- Clinical Guidelines
- Clinical Protocols
- Treatment Plans
- Admission Notes
  - Nursing
  - Non-physician Provider
  - Physician
  - Pharmacy
  - Ancillary Service
  - Administrative
- Discharge Notes
  - Nursing
  - Non-physician Provider
  - Physician
  - Pharmacy
  - Ancillary Service
  - Administrative
- Social Service Notes
- Death Certificate
- Coroner Request/Wrongful Death Notification
- Request For Autopsy
- Coroner's Report
- Bereavement Notes
- Clinical Specimens, Data and Findings
  - Specimen Labels (with patient name or identifying data)

- Images
  - Diagnostic Images
  - Documentation of Injury
  - Documentation of Procedure
- Sound/Audio Records
- Graphics
- Biometric/Waveform Tracings
- Clinical Device Output
- Laboratory Results
- Specimens
- Result Requests, Labels and Forms
- Laboratory Department Specimen Data
- Toxicology Reports
- Quality Assurance Data
  - Related to Patient
  - Related to Providers
  - Related to Department
  - Related to Institution/Organization
- Utilization Data
  - Related to Patient
  - Related to Providers
- Comparative Practice/Provision of Care Data
  - Related to Patient
  - Related to Providers
- Medical Malpractice Data

## 7. Data-User Roles

7.1 Data-user roles are defined under this guide to represent all potential data-users within the healthcare clinical and administrative domain. It is explicitly stated under this guide that no one outside of defined user roles (defined by specific role or class within a healthcare setting or organization providing healthcare clinical or administrative services) is to be allowed any data access or disclosure to confidential health data about an individual, group, or organization.

7.2 This guide does not put any explicit restrictions on the specific roles defined for any organization. The intent is to require organizations to classify all data-users of health information into categories that clearly define each data-user or each data-user type's access privileges.

7.3 Under this guide a given data-user can have multiple roles, but each of the roles shall be manifest for that individual discretely, one at a time, with separate discrete user authentication (data use or log-on), audit and access/disclosure logging for each instance of data access/disclosure. Explicitly, a given user can have more than one role, but can function in only one role and capacity at a time.

7.4 An example set of roles to illustrate the breakdown or partitioning of healthcare personnel that warrant differing levels of access are listed in **Table 2**. **Table 2** is identified using the registered object identifier in ASN1 notation: iso(1) memberbody( 2) us(840) ASTM E31(10065) privileges(1986) data-user-roles(7). The equivalent dot notation is 1.2.840.10065.1986.7. Healthcare personnel roles can be identified by appending the number to the left of the role to the OID of the table. Therefore, the role "Radiologist" would be represented as 1.2.840.10065.1986.7.27. This methodology facilitates a machine-readable, interoperable vocabulary data set. In addition to the individual role enumeration, a SNOMED CT equivalent has been identified, where possible, to facilitate mapping between datasets. Roles have been classified as licensed versus non-licensed data-users as the health information data they may individually access may or may not require

further disclosure or authorization based on this role attribute. The presence of a role on that list is explicitly not a suggestion, requirement, or mandate to provide health information access to personnel in that role in a specific organization. In fact, in the maintenance of confidentiality and privacy it is important to allow access to data only to individuals who need to accom-

plish specific tasks. Note that roles in that list are not specifically in each instance of use necessarily defined as healthcare providers. The list is comprised of roles that may, but are not required to provide healthcare administrative and clinical services.

**TABLE 2 Healthcare Personnel that Warrant Differing Levels of Access Control (1.2.840.10065.1986.7)**

LICENSED HEALTHCARE PROVIDER	SNOMED CT equivalent
<b>AUDIOLOGIST</b>	
001 Audiologist	309418004
<b>DENTAL</b>	
002 Dental Hygienist/Registered Dental Hygienist (RDH)	26042002
003 Dentist	106289002
004 Oral Surgeon	49993003
<b>DIETITIAN (RD)</b>	
005 Dietitian (RD)	159033005
<b>NON-WESTERN MEDICINE PROVIDERS</b>	
006 Certified Acupuncturist (CA)	
007 Licensed Massage Therapist (LMT)/ Registered Massage Therapist (RMT)	
<b>NURSE</b>	
008 Nurse	224569005
009 Clinical Nurse Specialist (CNS)	106292003
010 Clinical Registered Nurse Anesthetist (CRNA)	405278004
011 Licensed Vocational Nurse (LVN)/ Licensed Practical Nurse (LPN)	
012 Nurse Midwife (NM)	
013 Nurse Practitioner (NP)	224571005
014 Registered Nurse (RN)	224535009
<b>OPTOMETRIST (OD)</b>	
015 Optometrist (OD)	28229004
<b>PHARMACIST</b>	
016 Pharmacist	46255001
017 Pharmacist, Apothecary	159011008
018 Pharmacist, Clinical	159010009
<b>PHYSICIAN</b>	
019 Chiropractor (DC)	3842006
020 Osteopath (DO)	76231001
021 Homeopath	
022 MD/Allopath	
023 Naturopath (NP)	
024 Pathologist	61207006
025 Podiatrist (DPM)	159034004
026 Psychiatrist	80584001
027 Radiologist	66862007
028 Physician Assistant (PA)	
029 Psychologist	59944000
030 Social Worker (LCSW)	106328005
031 Speech Pathologist	
<b>TECHNICIAN</b>	
032 Cardiology Technician	159036002
033 Medical Laboratory Technician (MLT)	159285000
034 Pharmacy Technician/Certified Pharmacy Technician (CPT)	159040006
035 Prosthetic Technician	
036 Orthotist	309428008
<b>TECHNOLOGIST</b>	
037 Cytotechnologist	
038 Laboratory Technologist	386629007
039 Medical Technologist (MT)	386626000
040 Radiologic Technologist	
<b>THERAPIST</b>	
041 Certified Educational Therapist (CET)	
042 Kinesiotherapist (KT or RKT)	
043 Musical Therapist	
044 Occupational Therapist (OTR/L)	80546007
045 Occupational Therapy Assistant	
046 Physical Therapist (PT)/Registered Physical Therapist (RPT)	
047 Physical Therapy Assistant	
048 Recreational Therapist	
049 Respiratory Therapist	
050 Speech Therapist	159026005
051 Vocational Therapist	
<b>VETERINARIAN</b>	
052 Veterinarian (DVM)	106290006
<b>NON-LICENSED HEALTH CARE PROVIDERS</b>	
<b>AIDE</b>	