



Standard Practice for an Object-Oriented Model for Registration, Admitting, Discharge, and Transfer (RADT) Functions in Computer- Based Patient Record Systems¹

This standard is issued under the fixed designation E 1715; 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 (ε) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This practice is intended to amplify Guide E 1239 and to complement Guide E 1384 by detailing the objects that make up the reservation, registration, admitting, discharge, and transfer (RADT) functional domain of the computer-based record of care (CPR). As identified in Guide E 1239, this domain is seminal to all patient record and ancillary system functions, including messaging functions used in telecommunications. For example, it is applicable to clinical laboratory information management systems, pharmacy information management systems, and radiology, or other image management, information management systems. The object model terminology is used to be compatible with other national and international standards for health care data and information systems engineering or telecommunications standards applied to health care data or systems. This practice is intended for those familiar with modeling concepts, system design, and implementation. It is not intended for the general computer user or as an initial introduction to the concepts.

2. Referenced Documents

2.1 ASTM Standards:

- E 1238 Specification for Transferring Clinical Observations Between Independent Computer Systems²
- E 1239 Guide for Description of Reservation/Registration-Admission, Discharge, Transfer (RADT) Systems for Automated Patient Care Information Systems²
- E 1384 Guide for Description for Content and Structure of an Automated Primary Record of Care²
- E 1633 Specification for Coded Values Used in Computer-Based Patient Record²
- E 1639 Guide for Functional Requirements of Clinical Laboratory Information Management Systems²
- E 1744 Guide for a View of Emergency Medical Care in the Computer-Based Patient Record²
- F 1629 Guide for Establishing and/or Operating Emergency Medical Services Management Information Systems

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² *Annual Book of ASTM Standards*, Vol 14.01.

2.2 ANSI Standard:

ANSI X3.172 Dictionary of Information Systems³

2.3 IEEE Standard:

IEEE 1157.1 Trial Use Standard for Healthcare Information Interchange—Information Modelling (6 June 1994)⁴

2.4 Other Document:

HL-7 v2.2 Data Communication Standard⁵

3. Terminology

3.1 General terms are defined in ANSI X3.172.

3.2 *Definitions of Terms Specific to This Standard:*

3.2.1 *functional domain*—that area of activity that encompasses a given function. (HL-7, v2.2)

3.2.2 *health care domain*—that functional domain encompassing all aspects of the delivery of health care, both preventive and corrective, to patients, and the management of resources enabling that care to be delivered. (HL-7, v2.2)

4. Background

4.1 *Object Representation of RADT Processes*—Guide E 1239 provides the experiential background of the functions in RADT. These functions are common to all systems that deal with patient data. The minimal essential data elements for RADT were identified and characterized partly in Guide E 1239. Table 1 of that guide identifies a logical data structure for the data elements, but it does not relate these elements to constituent “entities” or “objects” in the sense that they are now used in analysis. Entity-relationship modeling is one major technique used (1)⁶ to establish the conceptual “things” and their relationships involved in this overall functional domain. “Objects” (2, 3) is another term for these things, and the object concept involves very specific characteristics associated with a defined object such as encapsulation and inheritance. Common ground exists between entity and object representations of models. However, the object terminology is

³ Available from American National Standards Institute, 11 W. 42nd St., 13th Floor, New York, NY 10036.

⁴ Available from IEEE, 445 Hoes Lane, P.O. Box 1331, Piscataway, NJ 08855-1331.

⁵ Available from Health Level Seven, 900 Victors Way, Suite 122, Ann Arbor, MI 48108.

⁶ The boldface numbers in parentheses refer to the list of references at the end of the standard.

TABLE 1 Data Element Datatypes

| Type | Standard Tag/ Mnemonic |
|-----------|---------------------------|
| Name | Name |
| Number | Num |
| Code | Code |
| Datetime | Dtm |
| Signature | Sig |
| Text | Text |
| Quantity | Qty |

still evolving into a clearly established dictionary associated with object modeling at the analysis (2), design (3), and implementation (3) levels of information systems engineering.

4.1.1 At the analysis level, which is most relevant to implementation-independent standards creation, the static level is first in importance since it identifies the involved objects and their static characteristics, such as definitions, relationships, and inheritance. Subsequently, the service/messages communication properties constitute the second level of importance, because they specify the dynamics of system behavior. However, messages are more difficult to define since system behavior patterns are more complex. This secondary domain also involves the telecommunications aspects that are the focus of other standards bodies. Because of the distributed and networked architectures of the newest systems, telecommunications may be of prime importance in qualifying the definitions of system behavior identified in Guide E 1239. For all of these reasons, it is of special importance to initially establish an object-oriented static model for the RADT functional domain that can be the basis for definitions of health care data management and standards setting and serve as a foundation for modeling telecommunications standards.

4.1.2 While this practice was being developed, a joint working group (JWG) on data modeling of the then American National Standards Institute (ANSI) Healthcare Informatics Standards Planning Panel (HISPP), now Health Informatics Standards Board, began work on a common data model (CDM) for the health care information domain. A JWG data modeling convention document (IEEE 1157.1) guides the conventions to be used, and this practice reflects those conventions as they are currently known. It is intended that this practice contribute to establishing the RADT core of the CDM. The exact boundaries of the RADT functional domain have not yet been agreed on formally. The objects included here are those that involve data generally associated with administrative and demographic functions in patient care but that may also be linked with other functional domains involved with health care.

4.2 *Inclusion of Emergency Medical Systems Functions*—This practice also takes note of the recent work of the emergency medical systems (EMS) standards ASTM Subcommittee F30.03.03 on Data Management Systems in defining the pre-hospital and associated emergency room data (Guide F 1629) required for emergency medical service system management. The hospital and emergency room data are a subset of that identified in Guide E 1384 and is consistent with the statement of Steen and Dick (4) that EMS data are part of the primary record of care. This concept has already been recognized in several state statutes that are part of the implementation of an injury control plan by the Centers for Disease

Control (see Guide E 1744). This RADT object model practice extends those data elements already defined in Guide E 1384 and Specification E 1633 by associating them with common RADT objects, as defined here, that form the basis for a predictable system behavior for trauma data. The behavior of clinical data will be defined subsequently in following standards.

4.3 *Relationships to Other Systems*—This practice also identifies those objects in the RADT functional domain that are required by clinical laboratory information management systems (CLIMS) (Guide E 1639), radiology information systems (RIS), and other ancillary systems. This model also forms the core for a basic ambulatory record system, and specialized variants, in support of clinical specialties in medicine and dentistry. The object models for these ancillary and specialized computer-based patient record (CPR) systems are defined in other standards that constitute the “family of models” that extend the RADT function.

5. Significance and Use

5.1 *RADT Object Model as a Basis for Communication*—The RADT object model is the first model used to create a common library of consistent entities (objects) and their attributes in the terminology of object analytical models as applied to the health care domain. These object models can be used to construct and refine standards relating to health care information and its management. Since the RADT object model underpins the design and implementation of specific systems, it provides the framework for establishing the systematics of managing observations made during health care. The observations recorded during health care not only become the basis for managing an individual’s health care by practitioners but are also used for research and resource management. They define the common language for abstracting and codifying observations. The inconsistency and incompleteness of the data recorded in paper records is well known and has been noted by the Institute of Medicine’s study (4). The ability to build the recommended CPR begins with RADT, as noted in Guide E 1239. A more detailed specification of the RADT process and its specific functional domain shall begin with a formal model. Furthermore, following agreement on the initial model, that model shall evolve as knowledge accumulates and the initial view of the health care domain extends to other social and psychologic processes that link health care with other functional domains of society. The management of lifelong cases of care, such as those of birth defects in newborns, will involve interactions with social work and educational functional domains of experience. It has been recognized for some time (5) that a “health care team,” in the broader sense, is involved in dealing with these complex cases. The RADT model is the core to linking these functional domains together in a transparent way. For that reason, the object terminology is used to enable the most global view and vernacular that will facilitate communication among technical specialties that participate in managing some aspect of health care or that build systems to manage the required information.

5.2 *Common Terminology as a Basis for Education*—The use of models and their associated terminology implies that education of the health care practitioners shall incorporate this

view to a significant extent. While a detailed specification of systems requires extensive lexicons of carefully defined terms, a more understandable terminology shall evolve for the process of educating practitioners during their formal education as well as continuing to educate current practitioners concerning how this new technology can be integrated with their existing practices. This challenge has yet to be met, but the objects and modeling concepts presented here are intended to be named with the most intuitive titles in order to promote clear understanding during their use in instruction. Nevertheless, relating these objects and their properties to everyday practice remains a significant challenge, for both the implementors of systems and educators. The perspectives cataloged here can be used in the creation of system documentation and curricula represented in a variety of media.

6. Graphic Representation

6.1 The graphic representation in Fig. 1 of the relationships

among the objects depicts the static inheritance properties of the constituent objects. They are exploded in Fig. 2 and Fig. 3. These properties and others, such as definitions, are given in tabular form in Section 7. Graphic depiction provides a more comprehensive overview of the global structure of this functional domain, thus enabling the reader to appreciate all of the parts of the model at a glance. This depiction also aids the reader when probing the specific attributes and other properties of the objects given in the tabular section. There are five object groups/subject areas (2), or subaggregates of objects with certain common characteristics. These relationships are more easily understood graphically. The notation is from Coad and Yourdon (2). Two main concepts are involved. The first, represented by separate lines and arrowheads, is the “is a component of” relationship, which implies the parts of a whole. The second concept, represented by a branching tree, is the “is a special case of” relationship, which implies encapsulation of

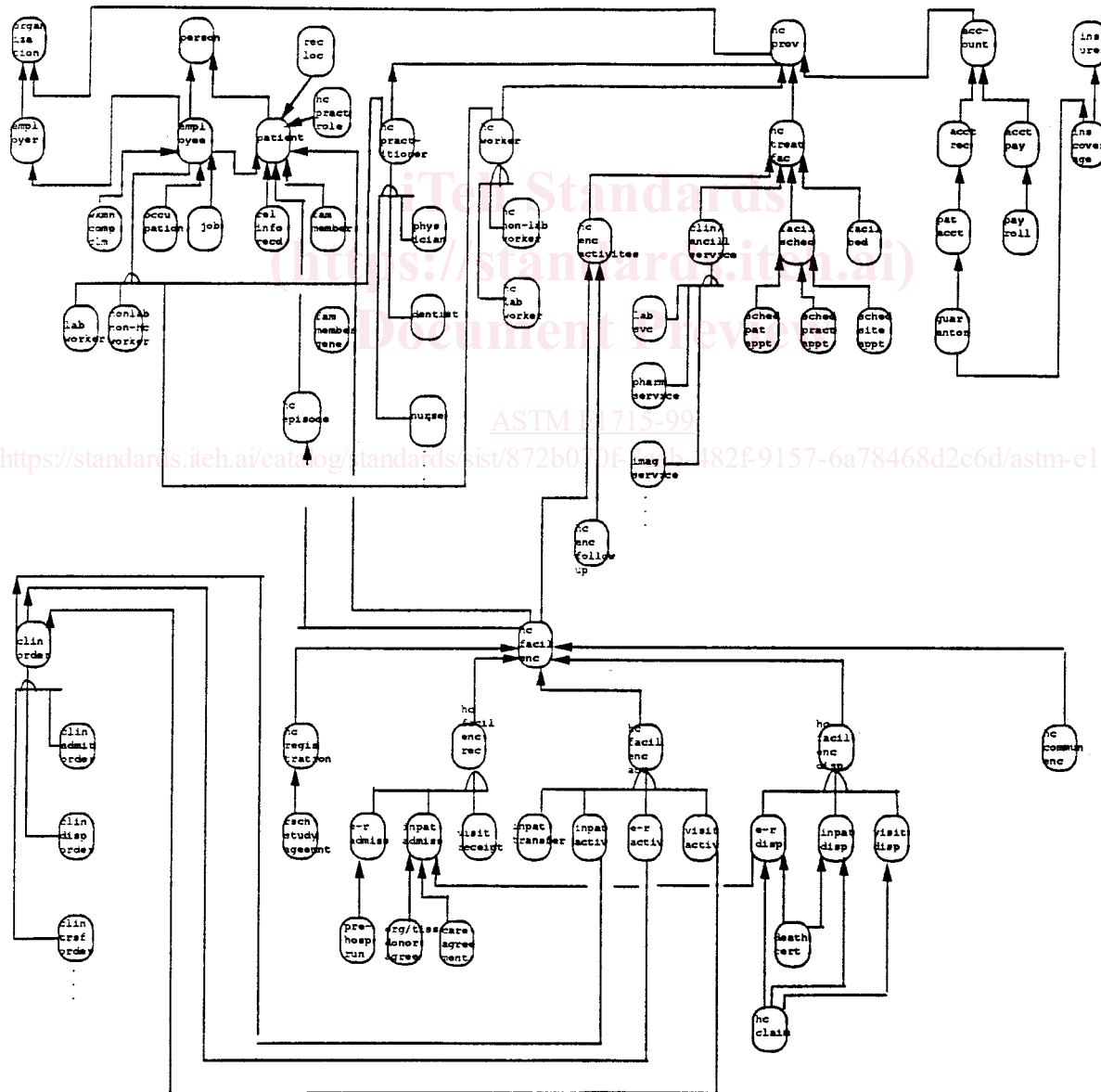


FIG. 1 RADT Object Relationships

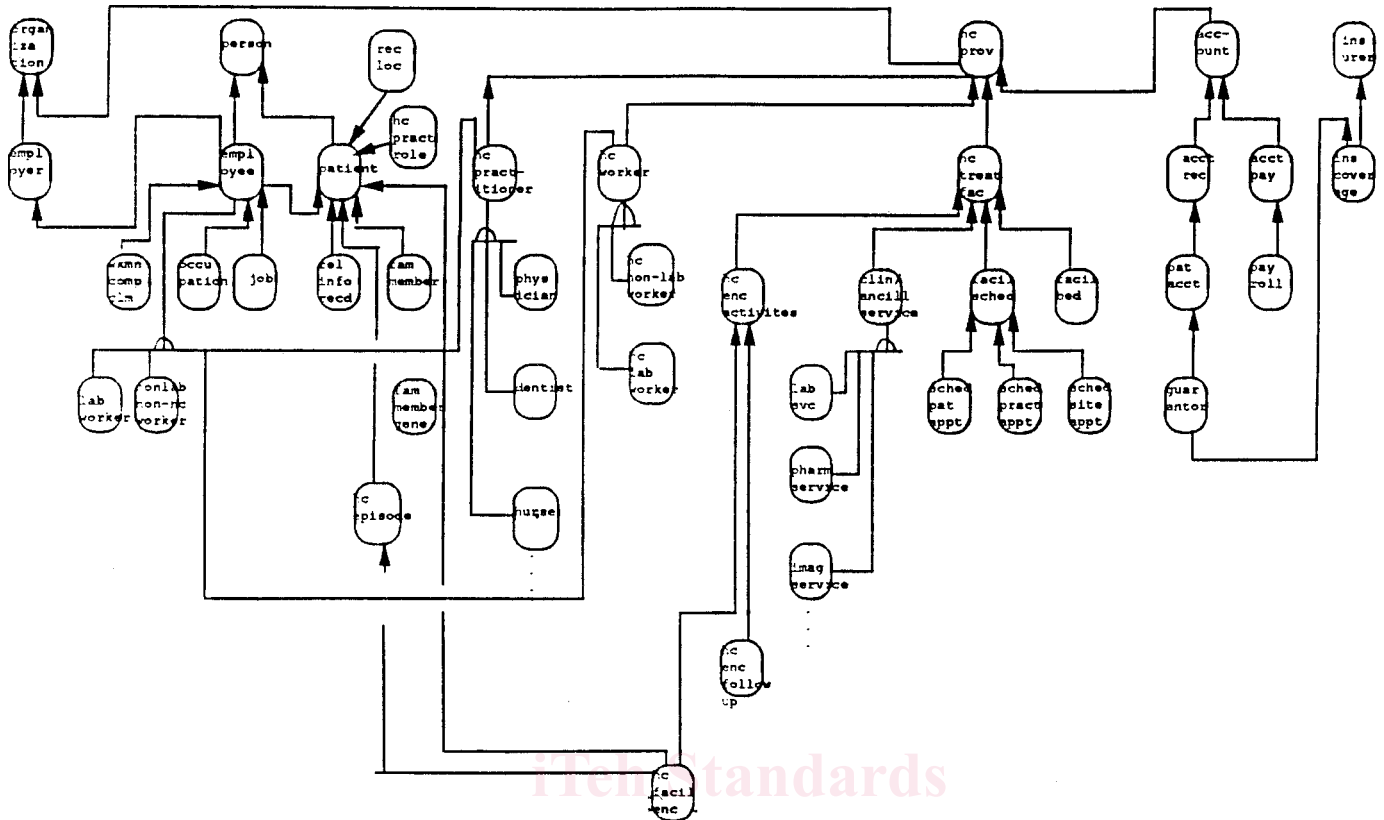


FIG. 2 People, Organization, Fiscal, Facilities Relationships

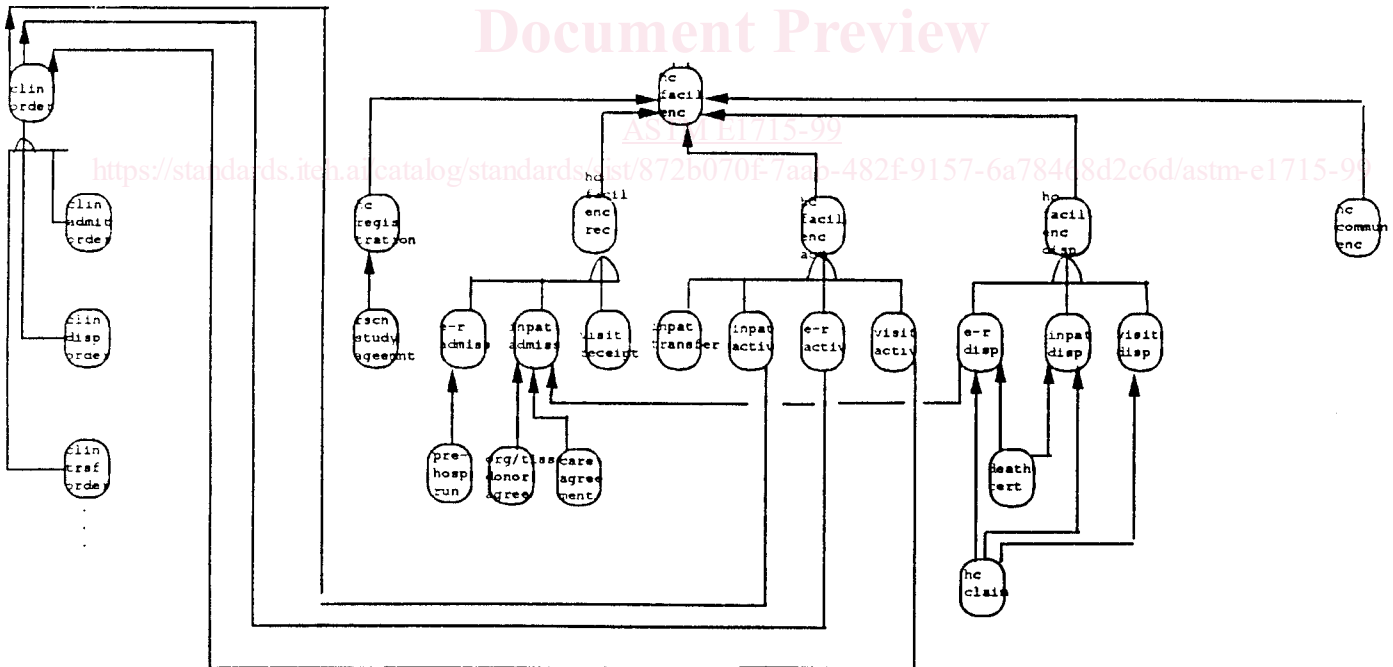


FIG. 3 Clinical Activity and Encounter Relationships

the special attributes that differentiate the individual characteristics of a more general object. The combination of these two relationships permits all of the complexities in the static interrelationships of the constituent objects comprising the model to be represented. Instance connections are a weaker

form of relationship that have not been included in the basic framework for this model. Instance connections show references to master system tables of context-insensitive entities. These same terms appear in the tabular representation. The sequential application of these relationships, visually from the

top down in Fig. 1, depict the inheritance properties since the objects later in the sequence of the relationships inherit the attributes from those earlier in the sequence. These concepts are all explained by Coad and Yourdon (2).

7. Tabular Representation

7.1 Table 1 and Table 2 and Annex A1 provide the detailed attributes of the objects and should be compared with Table 1 of Guide E 1239 and Annex A1 of Guide E 1384, which show the integrated logical structure of the computer-based primary record of care. The latest revision of Guide E 1384 associates each data element with an index that uniquely identifies its segment location in Annex A1 and provides a definition and references its representation. Certain data elements with coded values have their value sets, which are also identified in that specification by its specific index contained in Guide E 1384. The definitions, mnemonics, and associated attributes of the objects in the RADT object model are given in Table A1.1 of Annex A1 of this practice. The object mnemonics that are used in the construction of standardized short names for the data elements indexed and characterized in Guide E 1384 are given as attributes in this practice. A standardized short name begins with the object mnemonic and ends with a datatype substring given in Table 1. The object mnemonics are given in Table 2. Each substring begins with a sequence of uppercase letters followed by a sequence of lowercase letters. The beginning object mnemonic and ending datatype substrings are required. These characterizations provide the static properties of the RADT object model. The operational global implications of the dynamic properties of the RADT functional domain will be detailed in future versions of Guide E 1239, while the specific attributes comprising messages involving RADT objects will be specified in other standards, such as Specification E 1238, HL-7 v2.2, IEEE 1157.1, and others. The interrelationship of the objects defined here to other objects in ancillary or specialized CPR systems will be found in the standards focused on those specialty systems, such as Guide E 1639.

8. Explanation of Subject Areas

8.1 *People Subject Area*—This group of objects characterizes the properties of individuals in the RADT functional domain. The top level in this hierarchy is the person object. The generic attributes of all persons are contained in that object. The employee/worker object is included because it encapsulates attributes of the employee properties of not only patients but also those of workers in health care, including those generally skilled in addition to those skilled in ancillary as well as practitioner skills, in order to deal with the occupational illness and injury of these workers in an entirely consistent fashion. The guarantor status of each recipient is thus dealt with in a consistent manner, whether or not the individual works for the health care organization. The employee/worker object also inherits from the “organization” subject area because he/she works for an “employer.” The “occupation” object is a component multiple attribute of person objects because it is context insensitive, but “job” objects relate to the “employee/worker” object since their attributes are a function of the work environment, tasks, and potential hazards.

8.2 *Fiscal Subject Area*—This subject area characterizes the

TABLE 2 Names of Objects Contained in the RADT Model

| Object Name | Tag/Mnemonic |
|--|--------------|
| Clinical Activities | |
| Care agreement | CAGrmt |
| Care record location | RLoc |
| Clinical order/service request | COrd |
| Clinical admission order | CADOrd |
| Clinical disposition order | CDOrd |
| Clinical transfer order | CTOrd |
| Death certificate | DCert |
| Emergency room admission | ERAdm |
| Emergency room activities | ERAct |
| Emergency room disposition | ERDisp |
| Health care ambulatory visit receipt | HCAVRec |
| Health care ambulatory visit activities | HCAVAct |
| Health care ambulatory visit disposition | HCAVDisp |
| Health care communication encounter | HCCEnc |
| Health care encounter activity | HCEAct |
| Health care encounter followup | HCEFup |
| Health care episode | HCEp |
| Health care facility encounter | HCFEnc |
| Health care facility encounter activities | HCFEAct |
| Health care facility encounter disposition | HCFEDisp |
| Health care facility encounter receipt | HCFERec |
| Health care registration | HCRReg |
| Health care visit | HCVis |
| Inpatient activities | IAct |
| Inpatient admission | IAdm |
| Inpatient transfer | ITrns |
| Inpatient disposition | IDis |
| Organ/tissue donor agreement | Urg |
| Pre-hospital run | PREHosp |
| Research study agreement | RSCHAgr |
| Scheduled appointment | SCHAppt |
| Scheduled patient appointment | SCHPIAppt |
| Scheduled equipment appointment | SCHSEQAppt |
| Scheduled practitioner appointment | SCHPRAppt |
| Scheduled site appointment | SCHSITAppt |
| Facilities | |
| Health care treatment facility | HCTFac |
| Facility bed | FACBed |
| Facility schedule | FACSch |
| Clin/ancillary service | CANSvc |
| Clinical laboratory organizational service | CLAB |
| Pharmacy ancillary service | PHARANSvc |
| Imaging ancillary service | IMANSvc |
| Fiscal | |
| Account | Acc |
| Account payable | ACCPay |
| Account receivable | ACCRec |
| Patient account | ACCPt |
| Other account | ACCOth |
| Guarantor | Guar |
| Health care claim | HCClm |
| Insurer | Insr |
| Insurance coverage | INSCov |
| Workman's compensation claim | WCClm |
| Organization | |
| Organization | Orgn |
| Employer/company | Emplr |
| Health care provider | HCPrv |
| People | |
| Person | Pers |
| Employee/worker | Emply |
| Family member | FAMMbr |
| Patient | Pt |
| Release of information record | REINRcd |
| Health care practitioner | HCPract |
| Health care practitioner, physician | HCPPhy |
| Health care practitioner, dentist | HCPDent |
| Health care practitioner, nurse | HCPNur |
| Health care practitioner, nurse practitioner | HCPNPr |
| Health care worker | HCWkr |
| Occupation | Occ |
| Job | Job |

most basic properties of the claims and benefits properties. It is included to contain those data needed by the practitioners in devising treatment plans that are within the means of the individual as well as those data that characterize the resources allocated to the staff. It is an initial framework for understanding the management of resources within health care.

8.3 *Organizational Subject Area*—The objects in this subject area characterize the general properties of organizations and the responsibilities they have for the individuals they employ, including the elected or mandated benefits and workplace health and safety responsibilities. These properties are inherent in health care-providing organizations, in addition to their clients to whom they provide services. The “organization” object encapsulates the most general attributes of an organization without employees, while the employer function is represented by the employer object. A health care provider in the facilities subject area characterizes the highest level business functions of a health care organization.

8.4 *Facilities Subject Area*—This subject area is intended to characterize the properties of each facility and health care work site, both from the contribution to resource management as well as support of care to individual patients at the time of clinical encounters. The inheritance of these attributes into the primary record of care still requires study. The common designation of specialty and subspecialty subunits of a health

care provider (“clinical service”) is dependent on a yet-to-be-agreed-on naming rules convention that would define the special cases and their attendant unique attributes. Some commonality in these designations would aid health service and outcomes research that identify the best recommended services for identified populations and problems.

8.5 *Clinical Activities Subject Area*—This subject area is the important core to all aspects of the primary record of care and the supporting ancillary services. The health care facility encounter, and the immediate hierarchy of objects under it that characterize the properties of the range of health care settings outlined in Guide E 1384, provides the partitioning of attributes that enable the characterization of all situations of encounter and settings of care. They encapsulate the attributes of such situations and settings that we enumerate currently but do not restrict any further partitioning or identification of new attributes. All encounters have been recognized to have three major phases, with registration review an implicit fourth component and communication situations still assigned provisionally in the hierarchy.

9. Keywords

9.1 computer-based patient record (CPR); object modeling; registration, admitting, discharge, and transfer (RADT); reservation

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ANNEX
(Mandatory Information)
Document Preview

A1. PROPERTIES OF RADT OBJECTS

A1.1 The definitions, mnemonics, and associated attributes of the objects in the RADT object model are given in Table A1.1.

TABLE A1.1 Properties of RADT Objects

| General Subject/Object Group: Clinical Activities | |
|---|--|
| Care Agreement | Object and Class |
| 02001 | Relationships: Is a component of: inpatient admission |
| 02005 | Inherits from: Inpatient admission |
| 02010 | Health care facility encounter |
| 02015 | Health care facility encounter receipt |
| 02020 | Patient |
| 02030 | Person |
| 02040 | A legal document detailing the conditions that the patient consents to care during residency in this facility. |
| 02045 | Attributes: consent signed/admit agreement patient rights acknowledgment authority for autopsy release of body to morgue consent for videotp/observ directive to physician organ donor type court-ordered care |
| Clinical Admission Order | Object and Class |
| | Relationships: |

TABLE A1.1 Continued

| | |
|--------------------------------|---|
| | <p>Is a special case of: clinical order/service request Inherits from: Clinical order/service request Health care facil encounter Health care facil encounter activities Person Patient Health care encounter activity Health care treatment facility Health care provider Organization This object characterizes the special properties of the action to induct a patient into a resident status in a health care treatment facility. Attributes:</p> |
| Clinical Disposition Order | <p>Object and Class</p> <p>Relationships: Is a special case of: clinical order/service request Inherits from: Clinical order/service request Person Patient Health care facility encounter Health care facility encounter activities Health care encounter activity Inpatient activities Organization Health care provider Health care treatment facility This object characterizes the special properties of the action to release a resident patient from the responsibility of a health care treatment facility. Attributes:</p> |
| Clinical Order/Service Request | <p>Class</p> <p>Relationships: Is a component of: emergency room activities Is a component of: health care ambulatory visit activities Is a component of: inpatient activities Inherits from: Person Patient Health care encounter activity Health care treatment facility Health care provider Organization Health care facility encounter Health care facility encounter activities This object encompasses the general properties of a clinical action message, or "clinical order." It characterizes the properties common to all types of clinical orders by identifying the addressee, subject, circumstances, and control properties of the action ordered. It does not include those special properties of the addressee specialty. Attributes:</p> <p>10001 CLIN order ID number 10001.002 CLIN order patient status 10001.009 CLIN order date-time of order 10001.010 CLIN order type 10001.013 CLIN order action 10001.015 CLIN order priority 10001.017 CLIN order pre-admit status 10001.019 CLIN order origin 10001.021 CLIN order parent order 10001.022 CLIN order multiple seq status 10001.023 CLIN order related orders 10001.025 CLIN order user 10001.027 CLIN order user sig 10001.029 CLIN order nurse ID 10001.031 CLIN order nurse sig 10001.033 CLIN order ordering practitioner name 10001.035 CLIN order ordering practitioner sig 10001.037 CLIN order countersigning practitioner name 10001.039 CLIN order countersigning practitioner sig 10001.041 CLIN order nurse sig needed status 10001.043 CLIN order nurse sig needed datetime</p> |

TABLE A1.1 Continued

| | |
|--------------|--|
| 10001.045 | CLIN order practitioner sig needed status |
| 10001.047 | CLIN order practitioner sig needed datetime |
| 10001.049 | CLIN order countersig needed status |
| 10001.051 | CLIN order countersig needed by datetime |
| 10001.052 | CLIN order discontinued by practitioner name |
| 10001.053 | CLIN order discontinued practitioner sig |
| 10001.055 | CLIN order confirmation recd datetime |
| 10001.057 | CLIN order active/pending flag |
| 10001.059 | CLIN order active status |
| 10001.061 | CLIN order pending status |
| 10001.063 | CLIN order inactive status flag |
| 10001.065 | CLIN order start status |
| 10001.067 | CLIN order execution frequency |
| 10001.069 | CLIN order duration of service |
| 10001.071 | CLIN order latest status chg datetime |
| 10001.073 | CLIN order reactivation datetime |
| 10001.075 | CLIN order req fm ancillary |
| 10001.077 | CLIN order ancillary activ datetime |
| 10001.079 | CLIN order result expectation datetime |
| 10001.081 | CLIN order telephone result flag |
| 10001.083 | CLIN order telephone to request destination |
| 10001.085 | CLIN order request scheduled flag |
| 10001.087 | CLIN order requested appt time |
| 10001.089 | CLIN order appt type |
| 10001.091 | CLIN order appt transport status |
| 10001.093 | CLIN order appt status |
| 10001.095 | CLIN order assigned appt time |
| 10001.097 | CLIN order health service ordered |
| 10001.099 | CLIN order principal problem |
| 10001.100 | CLIN order full text |
| 10001.102 | CLIN order location of service |
| 10001.104 | CLIN order freq ordered SVC |
| 10001.106 | CLIN order modify status |
| 10001.108 | CLIN order modification reason |
| 10001.110 | CLIN order non-modify flag |
| 10001.112 | CLIN order instructions |
| 10001.114 | CLIN order secondary orders |
| 10001.116 | CLIN order message |
| 10001.118 | CLIN order date-time completed |
| 10001.120 | CLIN order result acknowl datetime |
| 10001.120.01 | CLIN order result shiftcare plan date |
| 10001.120.02 | CLIN order result return flag |
| 10001.120.03 | CLIN order result return status |
| 10001.120.04 | CLIN order result return datetime |
| 10001.120.05 | CLIN order result return acknl by |
| 10001.120.06 | CLIN order result return comment |
| 10001.123 | CLIN order date-time order completed |
| 10001.140 | CLIN order Q-A warning datetime |
| 10001.140.1 | CLIN order Q-A warning text |
| 10001.140.2 | CLIN order Q-A warning disposition |
| 10001.140.3 | CLIN order Q-A warn override practitioner |
| 10001.140.4 | CLIN order Q-A warn authorized by practitioner |
| 10001.140.5 | CLIN order Q-A warning override justification |
| 10001.160 | CLIN order Q-A review date |
| 10001.160.01 | CLIN order Q-A review event type |

Clinical Transfer Order

Object and Class

Relationships:
 Is a special case of: clinical order/service request
 Inherits from:
 Person
 Patient
 Health care encounter activity
 Health care treatment facility
 Health care provider
 Organization
 Health care facility encounter
 Health care facility encounter activities
 Inpatient activities
 Clinical order/service request
 This object characterizes the special properties of the action to move a resident patient from the responsibility of one organizational component of a health care treatment facility to another such component.
 Attributes:

TABLE A1.1 Continued

| Death Certificate | Object and Class |
|----------------------------|--|
| 01220 | Relationships: Is a component of: inpatient disposition Is a component of: emergency room disposition Inherits from: Patient Person The official record of the patient's death. |
| 01225 | Attributes: date-time of death |
| 01227 | place of death |
| 01230 | autopsy done |
| 01235 | recorder of death |
| 01240 | date death recorded |
| 01245 | death certificate no. |
| 01250 | state death certif recorded |
| 01255 | cause of death patient's mortuary pref |
| Emergency Room Activities | Object and Class |
| 10001 | Relationships: Is a special case of: health care facility encounter activities. Inherits from: Health care facility encounter activities Patient Person Health care facility encounter Health care treatment facility Health care provider Organization This object contains data that document the events occurring between admission to the emergency department and disposition therefrom. Attributes: clinical order ID no. |
| Emergency Room Admission | Object and Class |
| 14001.A027 | Relationships: Is a special case of: health care facility encounter receipt Inherits from: Health care encounter activity Health care episode Patient Person Health care facility encounter Health care facility encounter receipt Health care treatment facility Health care provider Organization This object characterizes the formal acceptance of responsibility for emergency care of the patient by the emergency department. Its attributes are the special aspects of a health care facility encounter receipt that are the special emergency department properties of this acceptance phase. Attributes: date of injury encounter nature of injury encounter mode of injury encounter loc where injured injury circumstances injury sev score E-R/admitting physician time of triage condition at triage date-time trauma surgeon arrived date-time neurosurgeon arrived |
| 14001.A030 | |
| 14001.A033 | |
| 14001.A036 | |
| 14001.A043 | |
| 14001.A046 | |
| 14001.A123 | |
| 14001.B015 | |
| 14001.B016 | |
| 14001.B00061. | |
| 14001.B00062. | |
| Emergency Room Disposition | Object and Class |
| | Relationships: Is a special case of: health care facility encounter disposition Inherits from: Health care facility encounter disposition Patient Person Health care encounter activity |

TABLE A1.1 Continued

| | |
|--|---|
| | <p>Health care facility encounter Health care treatment facility Health care provider Organization This object characterizes the data that document the outcome of care in the emergency department. The destination and followup of the patient care subsequent to release from the responsibility of the emergency department. If subsequent care is to be regular inpatient care within the facility, the attributes documenting this transfer of responsibility must be consistent with the attributes documenting the inpatient admission object. Attributes:</p> |
| Health Care Ambulatory Visit Activities | Object and Class |
| 10001. | <p>Relationships: Is a special case of: health care facility encounter activities Inherits from: Health care facility encounter Health care facility encounter activities Health care encounter activity Health care treatment facility Patient Person Health care provider Organization This object characterizes the activities surrounding a health care facility encounter and health care ambulatory visit, including the observations made, procedures conducted, treatments planned, and orders entered. Attributes: CLIN order ID no.</p> |
| Health Care Ambulatory Visit Disposition | Object and Class |
| 14001.F014 14001.F053 14001.F056 14001.F060 14001.F063 | <p>Relationships: Is a component of: health care facility encounter disposition Inherits from: Health care visit Health care facility encounter Health care facility encounter disposition Health care encounter activity Health care treatment facility Patient Person Health care provider Organization This object characterizes the concluding actions of a health care ambulatory visit by gathering the special properties that summarize the activities or plan the followup actions resulting from the event. Attributes: encounter procedure encounter depart date-time encounter followup action encounter followup status encounter followup target date</p> |
| Health Care Ambulatory Visit Receipt | Object and Class |
| 14001.A023 14001.A170 | <p>Relationships: Is a component of: health care visit Inherits from: Health care visit Health care facility encounter Health care encounter activity Health care treatment facility Patient Person Health care provider Organization This object characterizes the circumstances for initiating a health care ambulatory visit. Its attributes record the general properties that precipitated the event or surrounded the means by which the patient reached the health care facility to receive care. Attributes: chief complaint Encounter/Attending Physician</p> |
| Health Care Communication Encounter | Object and Class |