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*भारतीय मानक मसौदा*

**स्वास्थ्य सूचना विज्ञान — दिव्यांगजनों की पहचान और सूचना के  
आदान-प्रदान के लिए डेटा तत्व और स्ट्रक्चर**

**भाग 1 जांच**

*Draft Indian Standard*

**Health Informatics — Data Elements and Structures for  
Identification and Exchange of Information on Persons with  
Disability**

**Part 1 Screening**

**[ICS 35.240.80]**

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Health Informatics Sectional Committee, MHD 17

Last date for comments:  
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**FOREWORD**

*(Formal clauses will be added later)*

Disability is the world's largest minority group. As per WHO, there are nearly 15% of people with disabilities in the world and over 25 million people in India. In order to address the needs of persons with disabilities, collecting and sharing unambiguous and uniform demographics and health information on disability in a standardized way is vital to identify, process, assess, and categorize the functional limitations and needs of the subject of care in an intersectional way across the different domains of services. The data elements and data structures will be useful in identification for benefits in various sectors including healthcare, education, employment, infrastructure, and other services planning, etc.

This three-part standard aims at the identification of the data elements and structures for screening, identification and assessment of persons with disabilities, divided into:

- a) Health informatics — Data elements and structures for identification and exchange of information on persons with disability: Part 1 Screening
- b) Health informatics — Data elements and structures for identification and exchange of information on persons with disability: Part 2 Identification
- c) Health informatics — Data elements and structures for identification and exchange of information on persons with disability: Part 3 Assessment

The data elements and structures can be used for collection, identification, and assessment of disability information in face-to-face, paper-based or information technology-based environments, as well as in and between automated systems.

## 1 SCOPE

**1.1** This part of the standard focuses on the data elements for screening the population to identify any possible disability or functional limitation. This Technical Specification provides a generic set of screening information, which is application independent. The mechanism of exchange and security of the collected information is out of scope of this standard.

**1.2** The standard does not provide the method, process or algorithm used to identify persons with the disability.

## 2 REFERENCES

The standards given below contain provisions which, through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent edition of these standards.

<i>IS No./Other Standards</i>	<i>Title</i>
IS/ISO/TS 22220 : 2011	Health informatics — Identification of subjects of health care
ISO 639	Code for individual languages and language groups
HL7 FHIR	Specification v5.0.0: R5, <a href="https://hl7.org/fhir/">https://hl7.org/fhir/</a>

## 3 TERMS AND DEFINITIONS

For the purposes of this document, the following terms and definitions apply.

NOTE — Individual data elements are defined in subsequent sections.

**3.1 Capture** — Deliberate action, which results in the registration of a record into a record keeping system

**3.2 Person with Disability** — Any person who uses, or is a potential user of, a health/disability care service owing to physical, mental or cognitive impairment leading to restrictions in functioning.

NOTE — Subjects of care may also be referred to as patients/clients, health/disability consequential care consumers or subjects of care.

**3.3 Information Management System** — Organized collection of hardware, software, supplies, policies, procedures and people that stores, processes and provides access to information.

**3.4 Record** — Recorded information, in any form, including data in computer systems, which is created or received and maintained by an organization or person in the transaction of business or the conduct of affairs and kept as evidence of such activity.

**3.5 Registration** — Act of giving a record a unique identity in a record keeping system.

**3.6 Storage** — Function of storing records for future retrieval and use.

**4 COMPONENTS OF DATA ELEMENTS**

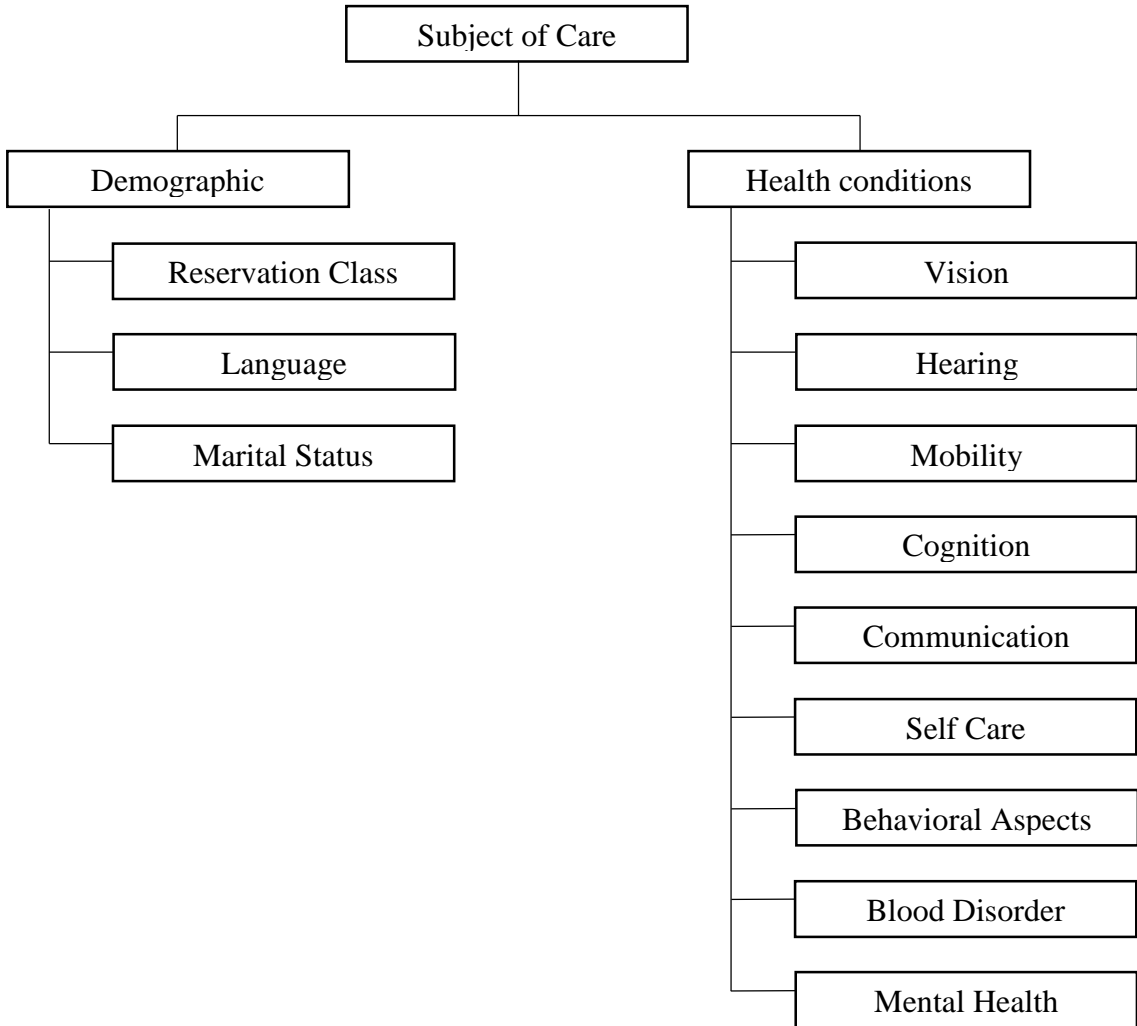


FIG. 1 COMPONENTS OF DATA ELEMENTS

**5 DEMOGRAPHIC DETAILS**

**5.1 Person Demographics**

<b>Synonyms</b>	
<b>Definition</b>	Demographic information examples include: age, race, ethnicity, gender, marital status, income, education, and employment.
<b>Source standards</b>	IS/ISO/TS 22220
<b>Data type</b>	Coded text (from an agreed vocabulary or value domain)
<b>Data domain</b>	alphanumeric or as practiced in a given country

<b>Cardinality (Optionality/Repeatability)</b>	1..1
<b>Guide for use</b>	
<b>Verification rules</b>	<p>Name - Only one name for any individual subject of care can be allocated as the preferred name at any point in time.</p> <p>DoB - Birth date should be less than or equal to date of death. Valid date OR Birth date should be less than or equal to date of death OR Less than or equal to end date (where date is not blank)</p>
<b>Collection method (informative)</b>	<p>Name - If special characters form part of the given names, they should be included. Hyphenated names shall be entered with the hyphen.</p> <p>DoB - Punctuation (back slashes or hyphens) or spaces should not be used in data collection.</p>

## 5.2 Reservation Class

### 5.2.1 Caste

<b>Synonyms</b>	
<b>Definition</b>	As notified by respective governments
<b>Source standards</b>	As notified by respective governments, for example <a href="https://documents.doptirculars.nic.in/D2/D02est/Compendium%20of%20Instructions%20on%20Reservation%20in%20AppointmentsSUBSi.pdf">https://documents.doptirculars.nic.in/D2/D02est/Compendium%20of%20Instructions%20on%20Reservation%20in%20AppointmentsSUBSi.pdf</a>
<b>Data type</b>	Coded text (from an agreed vocabulary or value domain)
<b>Data domain</b>	SC ST OBC SBC VJ NT-B NT-C NT-D
<b>Cardinality (Optionality/Repeatability)</b>	0..1
<b>Guide for use</b>	
<b>Verification rules</b>	Value should not be Null
<b>Collection method (informative)</b>	self reported

## 5.3 Language

<b>Synonyms</b>	Speaking Language; Mother Tongue
<b>Definition</b>	The language which may be used to communicate with the individual.

<b>Source standards</b>	ISO 639  <a href="https://www.iso.org/iso-639-language-code">https://www.iso.org/iso-639-language-code</a>
<b>Data type</b>	Coded text (from an agreed vocabulary or value domain)
<b>Data domain</b>	Code Display  en English en-GB English (Great Britain) en-IN English (India) en-US English (United States) hi Hindi ja Japanese ko Korean pa Punjabi te Telugu zh Chinese
<b>Cardinality (Optionality/Repeatability)</b>	1..*
<b>Guide for use</b>	
<b>Verification rules</b>	Value should not be Null
<b>Collection method (informative)</b>	self reported

#### 5.4 Marital Status

<b>Synonyms</b>	
<b>Definition</b>	This field contains most recent marital (civil) status
<b>Source standards</b>	FHIR Resource: Patient.maritalStatus (CodeableConcept / Extensible) <a href="http://hl7.org/fhir/ValueSet/marital-status">http://hl7.org/fhir/ValueSet/marital-status</a>
<b>Data type</b>	Coded text (from an agreed vocabulary or value domain)
<b>Data domain</b>	Code Display A Annulled D Divorced I Interlocutory L Legally Separated M Married C Common Law P Polygamous T Domestic partner U unmarried S Never Married W Widowed UNK unknown
<b>Cardinality (Optionality/Repeatability)</b>	0..1
<b>Guide for use</b>	

<b>Verification rules</b>	Value should not be Null
<b>Collection method (informative)</b>	self reported

## 6 CLINICAL/ HEALTH STATUS

- a) Vision
- b) Hearing
- c) Mobility
- d) Cognition
- e) Communication
- f) Self care
- g) Behavioral aspects
- h) Blood disorder
- j) Mental health

### 6.1 Vision

#### 6.1.1 Vision Affecting Functioning in Daily Life

<b>Synonyms</b>	Finding related to sight; ability to see
<b>Definition</b>	A code which determines the findings related to the ability of a person to see, and limitations thereupon.
<b>Source standards</b>	WHO MDS/WHO DAS 2.0
<b>Data type</b>	Coded text (from an agreed vocabulary or value domain)
<b>Data domain</b>	No difficulty Mild Difficulty Moderate difficulty Severe Difficulty Extreme Difficulty
<b>Cardinality (Optionality/Repeatability)</b>	1..1
<b>Guide for use</b>	
<b>Verification rules</b>	Value should not be Null
<b>Collection method (informative)</b>	self reported

### 6.2 Hearing

#### 6.2.1 Hearing Affecting Functioning in Daily Life

<b>Synonyms</b>	Finding related to hearing ability
<b>Definition</b>	A code which determines the findings related to the ability of a person to hear, and limitations thereupon.
<b>Source standards</b>	WHO MDS/WHO DAS 2.0
<b>Data type</b>	Coded text (from an agreed vocabulary or value domain)
<b>Data domain</b>	No difficulty

	Mild Difficulty Moderate difficulty Severe Difficulty Extreme Difficulty
<b>Cardinality (Optionality/Repeatability)</b>	1..1
<b>Guide for use</b>	
<b>Verification rules</b>	Value should not be Null
<b>Collection method (informative)</b>	self reported

## 6.3 Mobility

### 6.3.1 Mobility Affecting Functioning in Daily Life

<b>Synonyms</b>	Finding related to mobility
<b>Definition</b>	A code which determines the findings related to the ability of a person to move without support in an age-appropriate manner
<b>Source standards</b>	WHO MDS/WHO DAS 2.0
<b>Data type</b>	Coded text (from an agreed vocabulary or value domain)
<b>Data domain</b>	No difficulty Mild Difficulty Moderate difficulty Severe Difficulty Extreme Difficulty
<b>Cardinality (Optionality/Repeatability)</b>	1..1
<b>Guide for use</b>	
<b>Verification rules</b>	Value should not be Null
<b>Collection method (informative)</b>	self reported

## 6.4 Cognition

### 6.4.1 Remembering and Concentrating Affecting Functioning in Daily Life

<b>Synonyms</b>	Finding related to cognitive ability
<b>Definition</b>	A code which determines the findings related to the ability of a person to remember, concentrate and cognitively function
<b>Source standards</b>	WHO MDS/WHO DAS 2.0
<b>Data type</b>	Coded text (from an agreed vocabulary or value domain)
<b>Data domain</b>	No difficulty Mild Difficulty Moderate difficulty Severe Difficulty Extreme Difficulty
<b>Cardinality (Optionality/Repeatability)</b>	1..1

<b>Guide for use</b>	
<b>Verification rules</b>	Value should not be Null
<b>Collection method (informative)</b>	self reported

## 6.5 Communication

### 6.5.1 Communications, Understanding or Being Understood- Affecting Functioning in Daily Life

<b>Synonyms</b>	Finding related to communication abilities
<b>Definition</b>	A code which determines the findings related to the ability of a person to communicate, understand social cues and to be understood by others
<b>Source standards</b>	WHO MDS/WHO DAS 2.0
<b>Data type</b>	Coded text (from an agreed vocabulary or value domain)
<b>Data domain</b>	No difficulty Mild Difficulty Moderate difficulty Severe Difficulty Extreme Difficulty
<b>Cardinality (Optionality/Repeatability)</b>	1..1
<b>Guide for use</b>	
<b>Verification rules</b>	Value should not be Null
<b>Collection method (informative)</b>	self reported

## 6.6 Self Care

### 6.6.1 Self Care Ability with or without Assistance, Including Eating, Bathing, Toileting, Dressing, Managing Menstrual Hygiene

<b>Synonyms</b>	Finding related to age-appropriate selfcare abilities
<b>Definition</b>	A code which determines the findings related to the ability of a person to care for oneself with or without assistance or assistive devices
<b>Source standards</b>	WHO MDS/WHO DAS 2.0
<b>Data type</b>	Coded text (from an agreed vocabulary or value domain)
<b>Data domain</b>	No difficulty Mild Difficulty Moderate difficulty Severe Difficulty Extreme Difficulty
<b>Cardinality (Optionality/Repeatability)</b>	1..1
<b>Guide for use</b>	
<b>Verification rules</b>	Value should not be Null

<b>Collection method (informative)</b>	self reported
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## 6.7 Behavioral Aspects

### 6.7.1 Behavioral Challenges Affecting Daily Functioning

<b>Synonyms</b>	Finding related to age appropriate behaviour patterns
<b>Definition</b>	A code which determines the findings related to the behavioural patterns such as-uninhibited behaviour, not reading social cues, inappropriate behavior as per age , not be conscious of appropriate dressing
<b>Source standards</b>	WHO MDS/WHO DAS 2.0
<b>Data type</b>	Coded text (from an agreed vocabulary or value domain)
<b>Data domain</b>	No difficulty Mild Difficulty Moderate difficulty Severe Difficulty Extreme Difficulty
<b>Cardinality (Optionality/Repeatability)</b>	1..1
<b>Guide for use</b>	
<b>Verification rules</b>	Value should not be Null
<b>Collection method (informative)</b>	self reported

## 6.8 Blood Disorder

### 6.8.1 Energy Level Affecting Functioning in Daily Life

<b>Synonyms</b>	Finding related to energy level
<b>Definition</b>	A code which determines the findings related to the functioning related to blood disorders
<b>Source standards</b>	WHO MDS/WHO DAS 2.0
<b>Data type</b>	Coded text (from an agreed vocabulary or value domain)
<b>Data domain</b>	No difficulty Mild Difficulty Moderate difficulty Severe Difficulty Extreme Difficulty
<b>Cardinality (Optionality/Repeatability)</b>	1..1
<b>Guide for use</b>	
<b>Verification rules</b>	Value should not be Null
<b>Collection method (informative)</b>	self reported

## 6.9 Mental Health

### 6.9.1 Mental Health Affecting the Daily Functioning

<b>Synonyms</b>	Findings related to mental health issues such as depression, mood swings etc
<b>Definition</b>	A code which determines the findings related to the ability of a person to cope with psychological disturbances
<b>Source standards</b>	WHO MDS/WHO DAS 2.0
<b>Data type</b>	Coded text (from an agreed vocabulary or value domain)
<b>Data domain</b>	No difficulty Mild Difficulty Moderate difficulty Severe Difficulty Extreme Difficulty
<b>Cardinality (Optionality/Repeatability)</b>	1..1
<b>Guide for use</b>	
<b>Verification rules</b>	Value should not be Null
<b>Collection method (informative)</b>	self reported

## 6.10 Other Difficulty

### 6.10.1 Other Difficulty/Disability

<b>Synonyms</b>	Any other health condition limiting the activities and participation, identified as disability in a given country
<b>Definition</b>	A code which determines the findings related to difficulties or impairment not covered above
<b>Source standards</b>	WHO MDS/WHO DAS 2.0
<b>Data type</b>	Coded text (from an agreed vocabulary or value domain)
<b>Data domain</b>	No difficulty Mild Difficulty Moderate difficulty Severe Difficulty Extreme Difficulty
<b>Cardinality (Optionality/Repeatability)</b>	1..1
<b>Guide for use</b>	
<b>Verification rules</b>	Value should not be Null
<b>Collection method (informative)</b>	self reported