TECHNICAL SPECIFICATION

ISO/TS 22218-1

First edition
2023-01

Health informatics — Ophthalmic examination device data —

Part 1:
General examination devices

Informatique de santé — Données relatives aux dispositifs d'examen ophtalmique —

Partie 1: Dispositifs pour les examens généraux

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 215, *Health informatics*.

A list of all parts in the ISO 22218 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

Opthalmic devices are used in hospitals and clinics to conduct examinations for patients. The primary devices used in these opthalmic examinations provide measurement of refraction, corneal curvature, intraocular pressure, lens power and visual acuity. Almost all patients who consult for a diagnosis in ophthalmology undergo these examinations. Most ophthalmic hospitals and clinics use devices in these examinations to provide the needed measurements. Since many different vendors supply the devices to perform these measurements, the interoperability of examination results is important. In addition, standard procedures for mutually communicating these measurements are required between the ophthalmic examination devices and the Ophthalmic Information System (OIS).

These examinations are indispensable not only for ophthalmic medical care but also for prescriptions for spectacles and contact lenses. Additionally, intraocular pressure measurement is important for other ophthalmic procedures such as glaucoma assessment.

However, due to the differing data formats provided by these ophthalmic examination devices and the lack of interoperability, integration of this information is difficult and potentially error prone. Integration of each device's information into an OIS or hospital information system (HIS) therefore requires significant individual effort for each manufacturer's device.

This document specifies the content and format for ophthalmic examination device measurements, identifying that information that may be included in examination reports, as well as how it should be formatted when communicated to an OIS, HIS or other similar system.

Health informatics — Ophthalmic examination device data —

Part 1:
General examination devices

1   Scope

This document specifies the measurement data output formats for devices used in general ophthalmic examiniations, including the following modalities:

— Refractometer (REF)   Refraction

— Keratometer (KM)   Corneal curvature

— Tonometer (TM)   Intraocular pressure

— Lensmeter (LM)   Spectacle lens power

— Phoroptor (PHOR)   Visual acuity

This document only addresses text-based device reporting of ophthalmic examination device data (OEDD). Images generated as needed during an ophthalmic examination are outside the scope of this document.

2   Normative references

There are no normative references in this document.

3   Terms and definitions

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

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1
refractometer
device that measures the refractive state of the eye

Note 1 to entry: Measuring the refractive state of the eye is necessary to determine the refractive power of a correction lens to restore normal vision.

Note 2 to entry: Measuring devices can provide both analog or digital readouts.

[SOURCE: ISO 13666:2019, 3.13.7, modified — Note 1 to entry modified.]

3.11
Maddox
type of ophthalmic examation that uses a Maddox rod

Note 1 to entry: A point source through a small Maddox rod (filter with thin cylindrical red glasses lined up) forms a vertical red line when round glasses horizontally stand in a line, and forms a horizontal red line when round glasses stand vertically in a line. For this property, a Maddox tangent scale (scale with a cruciform scale and a point source at the center) is used to measure a heterophoria angle. By using a small Maddox rod horizontally (vertically) and viewing a tangent scale, a vertical (horizontal) red line can be seen with each eye. By seeing a point source at the center, a red line can be seen at the off-center position with the fellow eye. Measurement is performed by reading the horizontal (vertical) scale of the position.

3.12
accommodation
type of repeated measurement that is performed using the time required for focusing on a visual target

Note 1 to entry: This measurement reveals the nature of accommodation disorder by classifying the appearance of accommodation time into several types as contraction time, that is the time required for focusing on a near visual target, or relaxation time for the time required for focusing on a far visual target.

3.13
AC/A ratio
ratio of the accommodative convergence amount for +1,0D and the accommodation stimulation

Note 1 to entry: This is determined using a fusion test.

3.14
vergence
simultaneous movement of both eyes in different directions

Note 1 to entry: This occurs when the line of sight is moved to objects at different distances (depths) from a viewer. The movement of both eyes directed inward when one looks into the close distance is called "convergence", and the movement of both eyes directed outward when one looks into the far distance is called "divergence".

Note 2 to entry: Vergence is one of disconjugate eye movement of right and left eyeballs in the opposite directions, which is different from conjugate eye movement in which both eyes move in the same direction such as saccade and pursuit eye movement. In addition, the word "vergence" is commonly used for eye movement in a horizontal direction; however, besides this, vertical vergence and cyclovergence are included. The convergence divergence movement changes this convergence angle. The simultaneous movement of both eyes in opposite directions occurs when the line of sight is moved to objects at different depths; the convergence movement occurs when one looks into the close distance from the far distance; and on the contrary, the divergence movement occurs when one looks into the far distance from the close distance.

3.15
stereopsis
ability to use sensory information from both eyes to recognize three dimensional shaps sterioscopically

Note 1 to entry: This occurs when a planar image projected on the retina is subjected to integrative action in the visual areas of the cerebral cortex, and is recognized as a three-dimensional shape in three dimensional space.

3.16
depth perception
ability to recognize the difference in distance to multiple targets

3.17
phoria
state where the ocular position during the binocular vision test is normal; however, ocular displacement, infravergence or supravergence, appears as fusion disturbance

3.18
aniseikonia
condition in which one eye perceives an image to be larger compared to the other eye and can occur in a horizontal or vertical direction

3.19
ophthalmic information system
OIS
computer system that acquires, stores, retrieves and manages ophthalmic images and examination data

Note 1 to entry: The OIS gather and manage examination information from various ophthalmic devices and submit persistent examination reports in CDA RMIM format to HIS.

3.20
deviceCDA
subset of the CDA RMIM dataset that only includes the information contained in a device

Note 1 to entry: Most ophthalmic examination devices do not support all the mandatory information required by a complete CDA document, such as patient or operator identification. Additional information can be associated after the report is sent to an OIS or HIS. For additional details, see Clause 4.

3.21
hospital information system
HIS
comprehensive, integrated information system designed to manage all the aspects of a hospital's operation

Note 1 to entry: In many implementations, a HIS covers hospital's operation such as medical, administrative, financial, and legal issues and the corresponding processing of services.

[SOURCE: IS4H-MM[11]]

3.22
optotype
variable-sized type used in testing visual acuity

4 Specifications

4.1 General

OEDD provides standards both for transferring clinical ophthalmic examination data from various types of examination devices to an OIS, as well as submitting persistent reports based on those examination data from an OIS to an HIS.

Exemplary use cases are detailed in Annex A

It is possible to handle multiple data types such as REF, kerato, IOP, and lens meter within one XML file. It is acceptable to compile REF, kerato, IOP, and lens meter in one file or separate them into different files. Within the file, <ClinicalDocument> is the top tag in accordance with the rules for CDA.

For details, refer to 4.3.

The standard codes used in this document are shown in Annex C, and sample XML files are shown in Annex D.

4.2 deviceCDA and persistent examination reports

Most OEDD devices only output examination data and related information, and cannot provide additional data items such as Patient, Operator, Custodian and Authentication.

For such devices, OEDD introduces deviceCDA, a strict subset of CDA, that allows devices to transfer examination data and related information as a deviceCDA dataset without the additional detailed patient identification information that is required in complete CDA documents.

OIS plays the role of receiving examination data and related information as a deviceCDA dataset from a device, and then submitting a persistent examination report to an HIS with additional information required for the complete CDA dataset.

deviceCDA is not a complete CDA dataset but still conforms to the same syntax. OIS therefore prepares a complete OEDD that includes the CDA RMIM dataset with information such as Patient, Operator, Custodian and Authentication, and inserts the deviceCDA dataset received from the device into the OEDD. See Figure 1.
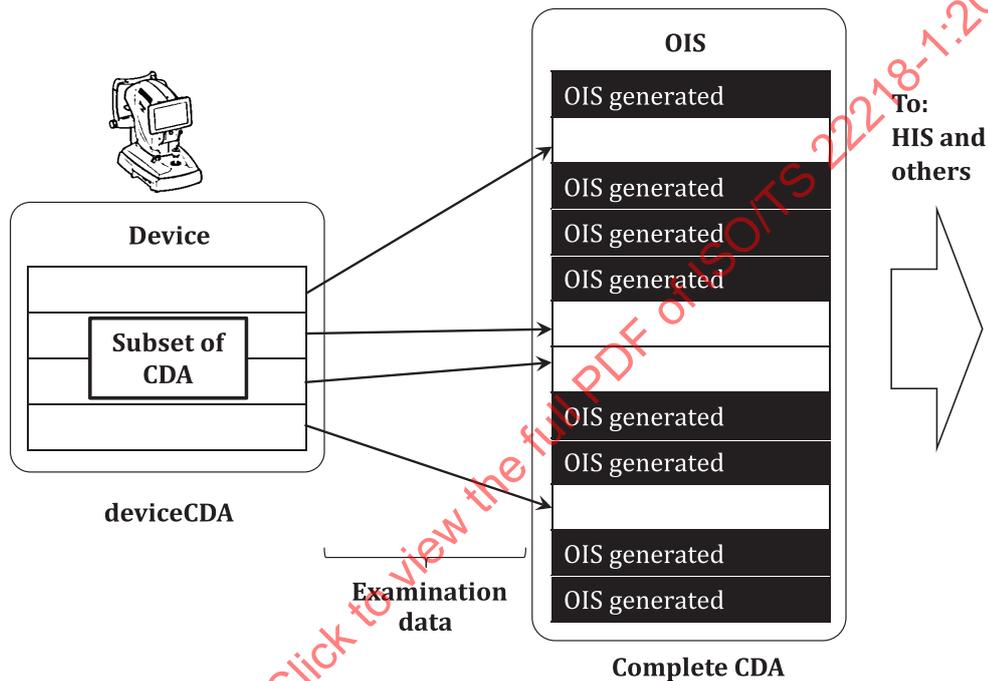
Figure 1 — Concept of a deviceCDA

4.3 Data classification constitution in the file

Both a deviceCDA and a complete CDA file has <ClinicalDocument> and <code code=**"78513-9"**> as the top tag.

It is possible to collect information from all the OEDD classifications into one file, or they can be separated into different deviceCDA/Complete CDA files. In the case of a single composite OEDD deviceCDA/Complete CDA document, the data tags that are common across the devices shall be specified once, and the OEDD data tags integrated separately. See Table 1.

When encountering a data classification not included in the OEDD specification (e.g., private extensions), in which case, implementations shall ignore non-recognized data classifications and process the known data classifications accordingly.

Table 1 — Example deviceCDA file data block layouts

Common Data	Common Data	Common Data	Common Data
<ClinicalDocument>	<ClinicalDocument>	<ClinicalDocument>	<ClinicalDocument>
<code code="78513-9">	<code code="78513-9">	<code code="78513-9">	<code code="78513-9">
REF Data	REF Data	TM Data	LM Data
<component>	<component>	<component>	<component>
<structuredBody>	<structuredBody>	<structuredBody>	<structuredBody>
<component>	<component>	<component>	<component>
<section>	<section>	<section>	<section>
<code code="79898-3">	<code code="79898-3">	<code code="79896-7">	<code code="95318-2">
KR Data	LM Data	KR Data	
<component>	<component>	<component>	
<structuredBody>	<structuredBody>	<structuredBody>	
<component>	<component>	<component>	
<section>	<section>	<section>	
<code code="95298-6">	<code code="95318-2">	<code code="95298-6">	
TM Data	PHOR Data		
<component>	<component>		
<structuredBody>	<structuredBody>		
<component>	<component>		
<section>	<section>		
<code code="79896-7">	<code code="79895-9">		
LM Data			
<component>			
<structuredBody>			
<component>			
<section>			
<code code="95318-2">			
File 1	File 2	File 3	File 4

4.4 OEDD structure

4.4.1 General

This document is compliant with CDA-R2. For this reason, the complete detailed file structure can be reviewed in HL7 CDA®[1] Release 2.

In this document, only descriptions particular to ophthalmology are included.

---

1) HL7 CDA is the registered trademark of Health Level Seven International. This information is given for the convenience of users of this document and does not constitute an endorsement by ISO of the product named.

4.4.2 Data classifications

The data classifications of refractometer, keratometer, tonometer and such are maintained as attribute value (type) of <code> tags.

4.4.3 Attribute value and classification

Table 2 shows ophthalmic examination device data classification values.

Table 2 — OEDD Device Classification Values

Attribute value (code)	Data classification
79898-3	Refractometer data
95298-6	Keratometer data
79896-7	Tonometer data
95318-2	Lensmeter data
79895-9	Auto Phoroptor data

Figure 2 shows the examples with refractometer (REF), keratometer (KM), tonometer (TM), lensmeter (LM) and phoropter (PHOR) data These examications are designated using LOINC®[2] codes.

```
<---Refractometer data--->
  <code code="79898-3" displayName="REF" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
<---Keratometer data--->
  <code code="95298-6" displayName="KM" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
<---Tonometer data--->
  <code code="79896-7" displayName="TM" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
<---Lensmeter data--->
  <code code="95318-2" displayName="LM" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
<---Auto Phoroptor data--->
  <code code="79895-9" displayName="PHOR" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
```

Figure 2 — OEDD section tags

4.4.4 Handling of common data

4.4.4.1 General

Common data, such as ophthalmic examination title, are described in the CDA Header part between the <ClinicalDocument> tag and < structuredBody>. This common data will be present only once in a file.

4.4.4.2 Common data tags

The items to be described in the necessity column have the following meanings. See details in Table 3.

---

2) LOINC is the registered trademark of Regenstrief Institute. This information is given for the convenience of users of this document and does not constitute an endorsement by ISO of the product named.

Table 3 — Common data tags

Tag name	Description	Necessity[a]
ClinicalDocument	CDA-R2	D
typeId	Type ID. The compliant CDA R2 specifications are identified.	D
id	ID for unique identification specified at hospitals, etc. or groups	D
code	A code which represents the reporting category.	D
title	Ex) Ophthalmic examinations	D
effectiveTime	Date & time of creation of the file (yyyymmddhhmmss)	C
confidentialityCode	Confidentiality level code. The confidentiality value in the HL7 vocabulary domain is used. Ex) code="N"	D
languageCode	languageCode Ex) code="jpn"	D
versionNumber	Document version number	D
recordTarget	Patient	D
patientRole	Patient information	D
id	Patient No. (number of the order of examination) [b] Ex) extension="123456"	D
patient	Patient name [c]	C
name	Alphabetic expression [c]	C
family	family name [c]	C
given	Given name [c]	C
name	Regional ideographic or phonetic name [c]	O
family	family name [c]	O
given	Given name [c]	O
administrativeGenderCode	Patient's sex EX) F/M/UN [d]	C
birthTime	Patient's date of birth (yyyymmdd)	C
author	Author	D

[a] The items in the Necessity column have the following meanings:

   D - Tags and values are necessary for both Complete CDA and deviceCDA

   C - Tags and values are necessary for Complete CDA

   O - No tags or values are necessary

[b] Multiple settings are allowed for Patient No. Also, nullFlavor="NI" is allowed.

[c] Multiple settings are allowed for Patient name. If First name and Last name cannot be separated, the Last name should be entered in the First name section. Also, nullFlavor="NI" is allowed.

[d] Refer to Annex B.

Table 3 *(continued)*

Tag name	Description	Necessity[a]
time	Date & time of creation (yyyymmddhhmmss)	D
assignedAuthor	Information of the organization that prepares the document.	D
id	Assigned Author ID "NI" : If id is none	D
assignedAuthoringDevice	Assigned Authoring Device	D
manufacturerModelName	Model name and No. for distinction among the devices of the same model	D
softwareName	Software and ROM version	D
representedOrganization	Represented Organization	C
id	Represented Organization ID "NI": If id is none	C
name	Company name	C
custodian	custodian	C
assignedCustodian	Assigned Custodian	C
representedCustodianOrganization	Represented Custodian Organization	C
id	Represented Custodian Organization ID "NI": If id is none	C
documentationOf	Operator	C
serviceEvent	serviceEvent code EX) classCode="ACSN"	C
code	serviceEvent code	C
performer	performer type code EX) typeCode="PRF"	C
functionCode	Function Code EX) code="SNRS" [d]	C
assignedEntity	assignedEntity	C
id	Operator ID	C

[a] The items in the Necessity column have the following meanings:

  D - Tags and values are necessary for both Complete CDA and deviceCDA

  C - Tags and values are necessary for Complete CDA

  O - No tags or values are necessary

[b] Multiple settings are allowed for Patient No. Also, nullFlavor="NI" is allowed.

[c] Multiple settings are allowed for Patient name. If First name and Last name cannot be separated, the Last name should be entered in the First name section. Also, nullFlavor="NI" is allowed.

[d] Refer to Annex B.

4.4.5 Handling of ophthalmic examination data

4.4.5.1 General

Examination data are described in the <structuredBody> section of the deviceCDA as follows:

```
<structuredBody>

  <component>

    <section>

    ---(Refer to 4.4.5.2 for detailed content)

    <section>

  <component>

<structuredBody>
```

4.4.5.2　Ophthalmic examination data tags

Table 4 shows basic composition of tags used for ophthalmic examination data:

Table 4 — Ophthalmic examination data tags

Tag name	Description	Necessity[a]
component	CDA-R2 component	D
structuredBody		D
Medication information tag can be optionally defined here		-
component	CDA-R2 component	O
section	Section Ex) classCode="DOCSECT" mood-Code="EVN"	O
title	Title of drug to be administrated (mydriatic agent)	O
text	Drug name EX) Mydrin-P	O
entry		O
observation	Ex) classCode="OBS" mood-Code="EVN" (OBS=observation, EVN=exami-nation results)	O
code	drug code EX) 1319810Q1053 [b]	O
Examination tag defined here		-
component	CDA-R2 component	D
section	Section	D
code	LOINC®'s Exam Details Code EX) Set code of LOINC® for REF: "79898-3"	D
[a]　The items in the Necessity column have the following meanings: 　　D - Tags and values are necessary for both Complete CDA and deviceCDA 　　O - No tags or values are necessary		
[b]　This drug code is for the mydriatic solution (Mydrin®[d]-P) listed in the National Health Insurance Drug Price List commonly used in Japan.		
[c]　Refer to Annex C for detail of examination data measured by each ophthalmic examination device.		
[d]　Mydrin is the registered trademark of Santen Pharmaceutical Co., Ltd. This information is given for the convenience of users of this document and does not constitute an endorsement by ISO of the product named.		

Table 4 *(continued)*

Tag name	Description	Necessity[a]
title	examination title (HTML format)	D
text	detail of examination	D
entry		D
observation	Ex) classCode="OBS" mood-Code="EVN" (OBS=observation, EVN=examination results)	D
code	Examination code Ex) Refraction Sphere Right= "28687-2"	D
effectiveTime	Date & time of creation of the file (yyyymmddhhmmss)	D
Value	examination data & unit [c]	D
entryRelationship	Detailed examination data	D
sequenceNumber	Measurement number	D
observation	Ex) classCode="OBS" mood-Code="EVN" (OBS=observation, EVN=examination results)	D
code	Examination code Ex) Refraction Sphere Right= "28687-2"	D
value	examination data & unit [c]	D

[a] The items in the Necessity column have the following meanings:

D - Tags and values are necessary for both Complete CDA and deviceCDA

O - No tags or values are necessary.

[b] This drug code is for the mydriatic solution (Mydrin®[d]-P) listed in the National Health Insurance Drug Price List commonly used in Japan.

[c] Refer to Annex C for detail of examination data measured by each ophthalmic examination device.

[d] Mydrin is the registered trademark of Santen Pharmaceutical Co., Ltd. This information is given for the convenience of users of this document and does not constitute an endorsement by ISO of the product named.

4.4.6 Handling of units of measurement

The unit of measurement for numerical data is described as attribute value "unit".

ex) Sphere data of refractometer

```
<value xsi:type="PQ" unit="Diopter" value="11" />
```

4.5 OEDD XML schema

To comply with CDA-R2, CDA.XSD is designated as XML Schema.

Ex) At the <Clinical document> tag, it is designated as an attribute as follows.

```
<ClinicalDocument xsi:schemaLocation="urn:hl7-org:v3" xmlns:voc="urn:hl7-org:v3/voc" xmlns:xsi=
"https://www.w3.org/2001/XMLSchema-instance" xmlns="urn:hl7-org:v3">
```

Annex A
(informative)

Ophthalmic examination data cases

A.1 Medical care on the first visit and follow-up visits

A visual acuity test is performed both to establish an initial baseline as well as for regular routine medical checkups. REF and KM data provide the initial data when a visual acuity test with PHOR is performed, resulting in significant shortening of visual acuity test time. For that reason, data from various manufacturers' examination devices should be available in the same examination report format, both in the visual acuity test room and medical checkup room.

A.2 Glaucoma

Very long-term follow-up of IOP data with TM from several years to 40 years is required, and a future treatment plan is developed by checking the changes of previously measured IOP data. Because such long-term care is required, and patients' residences can change during that time, the utilization of an internationally standardized examination report format is strongly advised to respond both in Japan and abroad.

A.3 Cataract

A surgical plan is developed with reference to visual acuity data with PHOR, REF and KM data, and a surgical plan is proposed for a patient with reference to examination reports. Even in postoperative care management, the visual acuity data with PHOR are weighed against preoperative examination reports. Especially eye lesions that can lead to blindness such as glaucoma require long-term observation. It is increasingly important during follow-up examinations to have the availability of examination data including historical examination data from the hospitals and ophthalmic clinics in the worldwide.

A.4 Prescription for spectacles

After the performance of REF and KM examinations, a visual acuity test is performed with PHOR using these data as the initial value set. Also, spectacle lens data, measurd while patient is wearing the spectacles, are measured with LM to prepare a new prescription for spectacles to correct visual acuity. Availability of historical spectacle lens data and visual acuity data allows prescriptions more acceptable to the users, requiring the international standardization of OEDD data.

Annex B
(informative)

Standard codes used for common data

Table B.1 — Standard Codes for common data

Item	code	Standard system	Description
Patient's sex	F/M/UN	HL7 v3 Namespaces (Code Systems and Value Sets)	2.16.840.1.113883.5.1 (Refer to Reference [8])
Performer code	SNRS	HL7 v3 Namespaces (Code Systems and Value Sets)	2.16.840.1.113883.5.88 (Refer to Reference [9])

Annex C
(informative)

Standard codes for ophthalmic examination data

C.1 REF (Refractometer)

Table C.1 — Refractometer tags

Tag name	Eye	Code (LOINC®)	Description	Necessity[a]
Refraction		79898-3	Objective refraction panel	M
Sphere	R	28687-2	Right eye Sphere Autorefractor.auto EX) value="-2,50" unit="Dioptor"	M
	L	28691-4	Left eye Sphere Autorefractor.auto	M
Cylinder	R	28688-0	Right eye Cylinder Autorefractor.auto EX) value="0,50" unit="Dioptor"	M
	L	28692-2	Left eye Cylinder Autorefractor.auto	M
Axis	R	28689-8	Right eye Axis Autorefractor.auto EX) value="180" unit="Degrees"	M
	L	28693-0	Left eye Axis Autorefractor.auto	M
AutoRefractorDistance		28696-3	Eye Pupillary distance.binocular Autorefractor.auto EX) value="62,5" unit="mm"	M
VD		95289-5	Eye Corneal vertex distance Autorefractor.auto EX) value="12,00" unit="mm"	M
DiopterStep		95290-3	Sphere measurement increment Refractometer 95299-4 Type of Refractive power measurement increment LA31062-5: "0,01 diop" LA30932-0: "0,06 diop" LA30930-4: "0,12 diop" LA30931-2: "0,25 diop"	O
For the scenario where multiple refractive measurements are sent and the optional <repeatNumber=0 (Median)> section is not sent, the OIS should calculate the median from the list of measurements and store the median in its internal database.				

[a]   The items in the Necessity column have the following meanings:

   M - Tags and values are mandatory

   O - Tags and values are optional

[b]   For data element <CylinderMode>, the terms have the following meaning:

   "+" = the cylinder value is always positive

   "-" = the cylinder value is always negative

     "Mixed" = the cylindrical power by positive reading when the refractive power is positive for any meridional angle and the cylindrical power by negative reading in other cases

Table C.1 (continued)

Tag name	Eye	Code (LOINC®)	Description	Necessity[a]
AxisStep		95291-1	Type of Axis measurement increment	O
			95300-0 Axis measurement increment Keratometer	
			LA31063-3: "1 degree"	
			LA31064-1: "5 degrees"	
CylinderMode [b]		95292-9	Cylinder mode Refractometer	O
			LL5573-2Mode +/-/mix	
			LA30924-7: "-"	
			LA30923-9: "+"	
			LA11840-8: "Mixed"	
DeviceMasurementMode		95293-7	Device measurement mode	O
			LL5593-0 Ophthalmology Device Mode	
			LA31023-7: " CAT (Cataract)"	
			LA31024-5:" IOL (Intraocular Lens)"	
SE	R	95294-5	Right eye Spherical equivalent Autorefractor.auto	O
			EX) value="-2,75" unit="Dioptor"	
	L	95295-2	Left eye Spherical equivalent Autorefractor.auto	O
WorkingDistance		95297-8	Eye Pupillary distance.binocular far Autorefractor.auto	O
			EX) value="40" unit="cm"	
Near		95296-0	Eye Pupillary distance.binocular near Autorefractor.auto	O
			EX) value="60,5" unit="mm"	

For the scenario where multiple refractive measurements are sent and the optional
<repeatNumber=0 (Median)> section is not sent, the OIS should calculate the median from
the list of measurements and store the median in its internal database.

[a]   The items in the Necessity column have the following meanings:

    M - Tags and values are mandatory

    O - Tags and values are optional

[b]   For data element <CylinderMode>, the terms have the following meaning:

    "+" = the cylinder value is always positive

    "-" = the cylinder value is always negative

    "Mixed" = the cylindrical power by positive reading when the refractive power is positive for any meridional angle and the cylindrical power by negative reading in other cases

C.2 KM (Keratometer)

Table C.2 — Keratometer tags

Tag name	Eye	Code (LOINC®)	Description	Necessity[a]
KM		95298-6	Keratometry panel	M
DiopterStep		95290-3	Sphere measurement increment Refractometer 95299-4 Type of Refractive power measurement increment LA31062-5: "0,01 diop" LA30932-0: "0,06 diop" LA30930-4: "0,12 diop" LA30931-2: "0,25 diop"	O
AxisStep		95291-1	Type of Axis measurement increment 95300-0 Axis measurement increment Keratometer LA31063-3: "1 degree" LA31064-1: "5 degrees"	O
CylinderMode [b]		95301-8	Cylinder mode by Keratometry LL5573-2 Mode +/-/mix LA30924-7: "-" LA30923-9: "+" LA11840-8: "Mixed"	O
RefractiveIndex		95514-6	Keratometer Refractive index EX) value="1,3375"	M
Radius R1	R	28974-4	Right cornea Base curve 1 by Keratometry EX) value="8,05" unit="mm"	M
Radius R2	R	28976-9	Right cornea Base curve 2 by Keratometry	M
Radius Ave	R	95304-2	Right cornea Mean curvature radius by Keratometry	M
Radius R1	L	28984-3	Left cornea Base curve 1 by Keratometry	M
Radius R2	L	28986-8	Left cornea Base curve 2 by Keratometry	M
Radius Ave	L	95307-5	Left cornea Mean curvature radius by Keratometry	M

[a]   The items in the Necessity column have the following meanings:

   M - Tags and values are mandatory

   O - Tags and values are optional

[b]   For data element <CylinderMode>, the terms have the following meaning:

   "+" = the cylinder value is always positive

   "-" = the cylinder value is always negative

[c]   The term "Axis" is used in colloquial clinical parlance. However, the proper optical term for this usage is "meridian" and represents the corneal meridian measured during Keratometry.

[d]   The data element <CornealSize unit="mm"> is populated by devices in a horizontal measurement direction. However, it is not specified how the measurement is accomplished.
The most common use case is "from white to white", but others can exist.

Table C.2 *(continued)*

Tag name	Eye	Code (LOINC®)	Description	Necessity[a]
Power R1	R	28994-2	Right cornea Flat refractive power by Keratometry EX) value="45,00" unit="Dioptor"	M
Power R2	R	28995-9	Right cornea Steep refractive power by Keratometry	M
Power Ave	R	95308-3	Right cornea Mean refractive power by Keratometry	O
Power Cyl	R	95309-1	Right cornea Cylinder by Keratometry	M
Power R1	L	28996-7	Left cornea Flat refractive power by Keratometry	M
Power R2	L	28997-5	Left cornea Steep refractive power by Keratometry	M
Power Ave	L	95310-9	Left cornea Mean refractive power by Keratometry	O
Power Cyl	L	95311-7	Left cornea Cylinder by Keratometry	M
Axis R1 [c]	R	28975-1	Right cornea Axis by Keratometry EX) value="180" unit="Degrees"	M
Axis R2 [c]	R	28977-7	Right cornea Axis 2 by Keratometry	M
Axis Cyl	R	95309-1	Right cornea Cylinder by Keratometry	M
Axis R1 [c]	L	28985-0	Left cornea Axis by Keratometry	M
Axis R2 [c]	L	28987-6	Left cornea Axis 2 by Keratometry	M
Axis Cyl	L	95311-7	Left cornea Cylinder by Keratometry	M
PupilSizeOn	R	95314-1	Right pupil Diameter by Keratometry EX) value="3,5" unit="mm"	O
PupilSizeOff	R	8642-1	Right pupil Diameter Auto	O
PupilSizeOn	L	95315-8	Left pupil Diameter by Keratometry	O
PupilSizeOff	L	8640-5	Left pupil Diameter Auto	O
CornealSize	R	95316-6	Right cornea Horizontal diameter by Keratometry See note [d]	O
CornealSize	L	95317-4	Left cornea Horizontal diameter by Keratometry See note [d]	O

[a]   The items in the Necessity column have the following meanings:

  M - Tags and values are mandatory

  O - Tags and values are optional

[b]   For data element <CylinderMode>, the terms have the following meaning:

  "+" = the cylinder value is always positive

  "-" = the cylinder value is always negative

[c]   The term "Axis" is used in colloquial clinical parlance. However, the proper optical term for this usage is "meridian" and represents the corneal meridian measured during Keratometry.

[d]   The data element <CornealSize unit="mm"> is populated by devices in a horizontal measurement direction. However, it is not specified how the measurement is accomplished.
The most common use case is "from white to white", but others can exist.

C.3 TM (Tonometer)

Table C.3 — Tonometer tags

Tag name	Eye	Code (LOINC®)	Description	Necessity
Tonometry		79896-7	Tonometry panel	M
IOP [b]	R	79892-6	Right eye Intraocular pressure EX) value="22,3" unit="mmHg"	M
	L	79893-4	Left eye Intraocular pressure	M
CorrectedIOP_Param1	R	96087-2	Right cornea Standard thickness parameter EX) value="0,554" unit="mm"	O
	L	96088-0	Left cornea Standard thickness parameter	O
CorrectedIOP_Param2	R	96089-8	Right cornea Volume adjustment parameter EX) value="0,0450"	O
	L	96090-6	Left cornea Volume adjustment parameter	O
CorrectedIOP_CCT	R	79825-6	Right cornea Central corneal thickness Pachymetry EX) value="0,588" unit="mm"	O
	L	79826-4	Left cornea Central corneal thickness Pachymetry	O
MeasuredIOP	R	79892-6	Right eye Intraocular pressure EX) value="22,3" unit="mmHg"	M
	L	79893-4	Left eye Intraocular pressure	M
CorrectedIOP	R	96093-0	Right eye Intraocular pressure--compensated Calculated EX) value="20,8" unit="mmHg"	M
	L	96092-2	Left eye Intraocular pressure--compensated Calculated	M

[a] The items in the Necessity column have the following meanings:

M - Tags and values are mandatory

O - Tags and values are optional

[b] "mmHg", "kPa" and "hPa" can be used for the unit of intraocular pressure (attribute of <IOP>tag).

C.4   LM (Lensmeter)

Table C.4 — Lensmeter tags

Tag name	Eye	Code (LOINC®)	Description	Necessity[a]
LM		95318-2	Lensmeter panel	M
MeasureMode		95319-0	Corrective lens type LL5567-4 Lens type LA30899-1: "Standard lens" LA30959-3: "Bifocal lens" LA30958-5: "Multifocal lens" LA30898-3: "Progressive lens" LA30961-9: "Framed lens" LA30960-1: "Single lens" LA30897-5: "Contact lens"	O
DiopterStep		95290-3	Sphere measurement increment Refractom-eter 95299-4 Type of Refractive power measure-ment increment LA31062-5: "0,01 diop" LA30932-0: "0,06 diop" LA30930-4: "0,12 diop" LA30931-2: "0,25 diop"	O
AxisStep		95321-6	Lensmeter Axis measurement increment LL5576-5 Axis increment LA31063-3: "1 degree" LA31064-1: "5 degrees"	O

[a] The items in the Necessity column have the following meanings:

  M - Tags and values are mandatory

  O - Tags and values are optional

[b] For data element <CylinderMode>, the terms have the following meaning:

  "+" = the cylinder value is always positive

  "-" = the cylinder value is always negative

  "Mixed" = the cylindrical power by positive reading when the refractive power is positive for any meridional angle and the cylindrical power by negative reading in other cases

[c] For data element < PrismMode >, the terms have the following meaning:

  "pb" = polar (uses data elements <Prism unit="pdpt"> and <PrismBase unit="deg">)

  "xy" = Cartesian (uses data elements <PrismX unit="pdpt" base="out"> and <PrismY unit="pdpt" base="up">)

[d] For data element < AddMode >, the terms have the following meaning:

  "add" = add (uses data elements <ADD unit="Dioptor"> and <ADD2 unit="Dioptor">

  "nsph" = near sphere (uses data elements <NearSphere unit="Dioptor"> and <NearSphere2 unit="Dioptor">)

[e] Data element <S> is used for a single measurement of a lens

  (i.e. not specific to the left or right eye)

Table C.4 *(continued)*

Tag name	Eye	Code (LOINC®)	Description	Necessity[a]
CylinderMode [b]		95322-4	Cylinder mode LL5573-2 Mode +/-/mix LA30924-7: "-" LA30923-9: "+" LA11840-8: "Mixed"	O
PrismDiopterStep		95323-2	Lensmeter Prism measurement increment [Inverse Length] EX) value="0,25" unit="pdpt"	O
PrismBaseStep		96051-8	Lensmeter Prism base direction measurement increment EX) value="1" unit="Degrees"	O
PrismMode [c]		95324-0	Prism mode	O
AddMode [d]		96052-6	Additional power mode	O
Sphere	S [e]	96053-4	Corrective lens Sphere far by Lensmeter EX) value="-3,00" unit="Dioptor"	M
Sphere	R	28780-5	Right corrective lens Sphere far by Lensmeter	M
Sphere	L	55977-3	Left corrective lens Sphere far by Lensmeter	M
Cylinder	S [e]	96054-2	Corrective lens Cylinder far by Lensmeter EX) value="0,00" unit="Dioptor"	M
Cylinder	R	29134-4	Right corrective lens Cylinder far by Lensmeter	M
Cylinder	L	28786-2	Left corrective lens Cylinder far by Lensmeter	M
Axis	S [e]	95325-7	Corrective lens Axis by Lensmeter EX) value="0" unit="Degrees"	M
Axis	R	28781-3	Right corrective lens Axis far by Lensmeter	M
Axis	L	28787-0	Left corrective lens Axis far by Lensmeter	M

[a] The items in the Necessity column have the following meanings:

   M - Tags and values are mandatory

   O - Tags and values are optional

[b] For data element <CylinderMode>, the terms have the following meaning:

   "+" = the cylinder value is always positive

   "-" = the cylinder value is always negative

   "Mixed" = the cylindrical power by positive reading when the refractive power is positive for any meridional angle and the cylindrical power by negative reading in other cases

[c] For data element < PrismMode >, the terms have the following meaning:

   "pb" = polar (uses data elements <Prism unit="pdpt"> and <PrismBase unit="deg">)

   "xy" = Cartesian (uses data elements <PrismX unit="pdpt" base="out"> and <PrismY unit="pdpt" base="up">)

[d] For data element < AddMode >, the terms have the following meaning:

   "add" = add (uses data elements <ADD unit="Dioptor"> and <ADD2 unit="Dioptor">

   "nsph" = near sphere (uses data elements <NearSphere unit="Dioptor"> and <NearSphere2 unit="Dioptor">)

[e] Data element <S> is used for a single measurement of a lens

   (i.e. not specific to the left or right eye)

Table C.4 *(continued)*

Tag name	Eye	Code (LOINC®)	Description	Necessity[a]
SE	S [e]	95326-5	Corrective lens Spherical equivalent Calculated	O
SE	R	95327-3	Right corrective lens Spherical equivalent Calculated	O
SE	L	95328-1	Left corrective lens Spherical equivalent Calculated	O
ADD	S [e]	28814-2	Corrective lens Add 1 binocular by Lensmeter EX) value="1,50" unit="Dioptor"	O
ADD	R	28810-0	Right corrective lens Add 1 by Lensmeter	O
ADD	L	28812-6	Left corrective lens Add 1 by Lensmeter	O
ADD2	S [e]	28815-9	Corrective lens Add 2 binocular by Lensmeter	O
ADD2	R	28811-8	Right corrective lens Add 2 by Lensmeter	O
ADD2	L	28813-4	Left corrective lens Add 2 by Lensmeter	O
NearSphere	S [e]	95329-9	Corrective lens Sphere near 1 by Lensmeter EX) value="-1,50" unit="Dioptor"	O
NearSphere	R	28793-8	Right corrective lens Sphere near 1 by Lensmeter	O
NearSphere	L	28802-7	Left corrective lens Sphere near 1 by Lensmeter	O
NearSphere2	S [e]	95330-7	Corrective lens Sphere near 2 by Lensmeter	O
NearSphere2	R	28796-1	Right corrective lens Sphere near 2 by Lensmeter	O
NearSphere2	L	28805-0	Left corrective lens Sphere near 2 by Lensmeter	O
Prism	S [e]	95331-5	Corrective lens Prism by Lensmeter EX) value="0,25" unit="pdpt"	O
Prism	R	95332-3	Right corrective lens Prism by Lensmeter	O
Prism	L	95333-1	Left corrective lens Prism by Lensmeter	O

[a] The items in the Necessity column have the following meanings:

   M - Tags and values are mandatory

   O - Tags and values are optional

[b] For data element <CylinderMode>, the terms have the following meaning:

   "+" = the cylinder value is always positive

   "-" = the cylinder value is always negative

   "Mixed" = the cylindrical power by positive reading when the refractive power is positive for any meridional angle and the cylindrical power by negative reading in other cases

[c] For data element < PrismMode >, the terms have the following meaning:

   "pb" = polar (uses data elements <Prism unit="pdpt"> and <PrismBase unit="deg">)

   "xy" = Cartesian (uses data elements <PrismX unit="pdpt" base="out"> and <PrismY unit="pdpt" base="up">)

[d] For data element < AddMode >, the terms have the following meaning:

   "add" = add (uses data elements <ADD unit="Dioptor"> and <ADD2 unit="Dioptor">

   "nsph" = near sphere (uses data elements <NearSphere unit="Dioptor"> and <NearSphere2 unit="Dioptor">)

[e] Data element <S> is used for a single measurement of a lens

   (i.e. not specific to the left or right eye)

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Table C.4 *(continued)*

Tag name	Eye	Code (LOINC®)	Description	Necessity[a]
PrismBase	S [e]	96055-9	Corrective lens Prism base direction by Lensmeter EX) value="102" unit="Degrees"	O
PrismBase	R	55982-3	Right corrective lens Prism base direction by Lensmeter	O
PrismBase	L	28788-8	Left corrective lens Prism base direction by Lensmeter	O
PrismXin	S [e]	95334-9	Corrective lens Horizontal prism - in by Lensmeter EX) value="0,00" unit="pdpt"	O
PrismXout	S[e]	95335-6	Corrective lens Horizontal prism - out by Lensmeter	O
PrismXin	R	95336-4	Right corrective lens Horizontal prism - in by Lensmeter	O
PrismXout	R	95337-2	Right corrective lens Horizontal prism - out by Lensmeter	O
PrismXin	L	95338-0	Left corrective lens Horizontal prism - in by Lensmeter	O
PrismXout	L	95339-8	Left corrective lens Horizontal prism - out by Lensmeter	O
PrismYup	S [e]	95340-6	Corrective lens Vertical prism - up by Lensmeter	O
PrismYdown	S [e]	95341-4	Corrective lens Vertical prism - down by Lensmeter	O
PrismYup	R	95342-2	Right corrective lens Vertical prism - up by Lensmeter	O
PrismYdown	R	95343-0	Right corrective lens Vertical prism - down by Lensmeter	O
PrismYup	L	95344-8	Left corrective lens Vertical prism - up by Lensmeter	O
PrismYdown	L	95345-5	Left corrective lens Vertical prism - down by Lensmeter	O

[a] The items in the Necessity column have the following meanings:

M - Tags and values are mandatory

O - Tags and values are optional

[b] For data element <CylinderMode>, the terms have the following meaning:

"+" = the cylinder value is always positive

"-" = the cylinder value is always negative

"Mixed" = the cylindrical power by positive reading when the refractive power is positive for any meridional angle and the cylindrical power by negative reading in other cases

[c] For data element < PrismMode >, the terms have the following meaning:

"pb" = polar (uses data elements <Prism unit="pdpt"> and <PrismBase unit="deg">)

"xy" = Cartesian (uses data elements <PrismX unit="pdpt" base="out"> and <PrismY unit="pdpt" base="up">)

[d] For data element < AddMode >, the terms have the following meaning:

"add" = add (uses data elements <ADD unit="Dioptor"> and <ADD2 unit="Dioptor">)

"nsph" = near sphere (uses data elements <NearSphere unit="Dioptor"> and <NearSphere2 unit="Dioptor">)

[e] Data element <S> is used for a single measurement of a lens

(i.e. not specific to the left or right eye)

Table C.4 *(continued)*

Tag name	Eye	Code (LOINC®)	Description	Necessity[a]
UVTransmittance	S[e]	95346-3	Corrective lens UV transmittance by Lensmeter EX) value="5" unit="%"	O
UVTransmittance	R	95347-1	Right corrective lens UV transmittance by Lensmeter	O
UVTransmittance	L	95348-9	Left corrective lens UV transmittance by Lensmeter	O
Distance		28792-0	Glasses Pupillary distance.binocular by Lensmeter EX) value="29,5" unit="mm"	O
Distance	R	28782-1	Right glasses lens Pupillary distance.monocular by Lensmeter	O
Distance	L	28789-6	Left glasses lens Pupillary distance.monocular by Lensmeter	O
Near		95349-7	Glasses Pupillary distance.binocular near by Lensmeter EX) value="54,5" unit="mm"	O
Near	R	28799-5	Right glasses lens Pupillary distance.monocular near by Lensmeter	O
Near	L	95350-5	Left glasses lens Pupillary distance.monocular near by Lensmeter	O

a   The items in the Necessity column have the following meanings:

   M - Tags and values are mandatory

   O - Tags and values are optional

b   For data element <CylinderMode>, the terms have the following meaning:

   "+" = the cylinder value is always positive

   "-" = the cylinder value is always negative

   "Mixed" = the cylindrical power by positive reading when the refractive power is positive for any meridional angle and the cylindrical power by negative reading in other cases

c   For data element < PrismMode >, the terms have the following meaning:

   "pb" = polar (uses data elements <Prism unit="pdpt"> and <PrismBase unit="deg">)

   "xy" = Cartesian (uses data elements <PrismX unit="pdpt" base="out"> and <PrismY unit="pdpt" base="up">)

d   For data element < AddMode >, the terms have the following meaning:

   "add" = add (uses data elements <ADD unit="Dioptor"> and <ADD2 unit="Dioptor">

   "nsph" = near sphere (uses data elements <NearSphere unit="Dioptor"> and <NearSphere2 unit="Dioptor">)

e   Data element <S> is used for a single measurement of a lens

   (i.e. not specific to the left or right eye)

C.5   PHOR (Phoroptor)

The tags for the PHOR (Phoropter) are hierarchically organized by examination to avoid duplication of LOINC® codes. In Table C.5, tags indicating hierarchy are shown in bold, and their layer numbers are shown in brackets in the lower right corner. These hierarchical tags are required if any of the

tags contained under them are used. SNOMED CT®[3] codes (SCTID) are used as examples of tags that indicate hierarchy. Hierarchical structure of PHOR tags is also shown as Table C.6.

Table C.5 — Phoroptor tags

Tag name	Eye	Code (LOINC®)	Description	Necessity[a]
PHOR		79895-9	Subjective refraction panel	M
RefractionTest **(Layer 1)**		252886007 (SCTID)	Refraction assessment (procedure)	
RefractionTest_RefType [b]		98367-6	Phoropter Refraction type LL6028-6 Refraction type LA31303-3: "Uncorrected" LA31304-1: "Current Lenses" LA31305-8: "Objective" LA31307-4: "Last Prescription" LA31301-7: "Best Corrected" LA31300-9: "Final Prescription"	M
RefractionTest_CVD		98368-4	Corneal vertex distance by Phoropter The distance between the back surface of the lens and the cornea.	O
RefractionTlest_Far		252887003 (SCTID)	Refraction assessment – distance (procedure)	

SNOMED-CT® codes are referenced as examples of tags that indicate hierarchy. However, SNOMED-CT® codes are just samples and any other equivalent regional codes may be used.

[a] The items in the Necessity column have the following meanings:

M - Tags and values are mandatory

O - Tags and values are optional

[b] "Uncorrected" = unaided, "Current Lenses" = lensmeter measurements + visual acuity through lenses the patient usually wears, also called Habitual, "Objective" = autorefractor measurements + visual acuity, "Last Prescription" = manually entered previous prescription values, "Best Corrected" = final measurements, "Final Prescription" = current prescription

[c] Required unless the patient is functionally monocular or if the refractive information is otherwise impossible to obtain

[d] Required if <VAConditionType> is "Contrast"

[e] At least one of the <VA> values (R, L, B) data elements shall be sent with a valid value. The units shall be consistent within each specific data element

unit="ft" means Snellen for <Far> or Reduced Snellen for <Near>, represented in feet,

as a denominator: 20/x (Note the value 20 is not sent)

unit="m" means Snellen for <Far> or Reduced Snellen for <Near>, represented in meter,

as a denominator: 6/x (Note the value 6 is not sent)

unit="decimal" means Snellen for <Far> or Reduced Snellen for <Near>, represented as

a decimal value

unit="log" means visual acuity represented as logMAR

[f] When providing Aniseikonia horizontal measurements, data elements <Horizontal>, <HorizontalRefEye> shall have a valid value. When providing Aniseikonia vertical measurements, data elements <Vertical>, <VerticalRefEye> shall have a valid value.

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3) SNOMED CT is the registered trademark of the International Health Terminology Standards Development Organisation (IHTSDO). This information is given for the convenience of users of this document and does not constitute an endorsement by ISO of the product named.

Table C.5 *(continued)*

Tag name	Eye	Code (LOINC®)	Description	Necessity[a]
(Layer 2)				
RefractionTest_Far_ViewingDistance		98370-0	Phoropter Viewing distance	O
RefractionTest_Far_Sphere	R	28663-3	Right eye Sphere far by Phoropter	M [c]
RefractionTest_Far_Sphere	L	28668-2	Left eye Sphere far by Phoropter	M [c]
RefractionTest_Far_Cylinder	R	28664-1	Right eye Cylinder far by Phoropter	M [c]
RefractionTest_Far_Cylinder	L	28669-0	Left eye Cylinder far by Phoropter	M [c]
RefractionTest_Far_Axis	R	28665-8	Right eye Axis far by Phoropter	M [c]
RefractionTest_Far_Axis	L	28707-8	Left eye Axis far by Phoropter	M [c]
RefractionTest_Far_Prism	R	98372-6	Right eye Prism far by Phoropter	O
RefractionTest_Far_Prism	L	98373-4	Left eye Prism far by Phoropter	O
RefractionTest_Far_PrismBase	R	98374-2	Right eye Prism base direction far by Phoropter	O
RefractionTest_Far_PrismBase	L	98375-9	Left eye Prism base direction far by Phoropter	O
RefractionTest_Far_PrismX_Out	R	98376-7	Right eye Horizontal prism - out far by Phoropter	O
RefractionTest_Far_PrismX_Out	L	98377-5	Left eye Horizontal prism - out far by Phoropter	O

SNOMED-CT® codes are referenced as examples of tags that indicate hierarchy. However, SNOMED-CT® codes are just samples and any other equivalent regional codes may be used.

[a] The items in the Necessity column have the following meanings:

  M - Tags and values are mandatory

  O - Tags and values are optional

[b] "Uncorrected" = unaided, "Current Lenses" = lensmeter measurements + visual acuity through lenses the patient usually wears, also called Habitual, "Objective" = autorefractor measurements + visual acuity, "Last Prescription" = manually entered previous prescription values, "Best Corrected" = final measurements, "Final Prescription" = current prescription

[c] Required unless the patient is functionally monocular or if the refractive information is otherwise impossible to obtain

[d] Required if <VAConditionType> is "Contrast"

[e] At least one of the <VA> values (R, L, B) data elements shall be sent with a valid value. The units shall be consistent within each specific data element

  unit="ft" means Snellen for <Far> or Reduced Snellen for <Near>, represented in feet,

  as a denominator: 20/x (Note the value 20 is not sent)

  unit="m" means Snellen for <Far> or Reduced Snellen for <Near>, represented in meter,

  as a denominator: 6/x (Note the value 6 is not sent)

  unit="decimal" means Snellen for <Far> or Reduced Snellen for <Near>, represented as

  a decimal value

  unit="log" means visual acuity represented as logMAR

[f] When providing Aniseikonia horizontal measurements, data elements <Horizontal>, <HorizontalRefEye> shall have a valid value. When providing Aniseikonia vertical measurements, data elements <Vertical>, <VerticalRefEye> shall have a valid value.

Table C.5 *(continued)*

Tag name	Eye	Code (LOINC®)	Description	Necessity[a]
RefractionTest_Far_PrismX_In	R	98378-3	Right eye Horizontal prism - in far by Phoropter	O
RefractionTest_Far_PrismX_In	L	98379-1	Left eye Horizontal prism - in far by Phoropter	O
RefractionTest_Far_PrismY_Up	R	98380-9	Right eye Vertical prism - up far by Phoropter	O
RefractionTest_Far_PrismY_Up	L	98381-7	Left eye Vertical prism - up far by Phoropter	O
RefractionTest_Far_PrismY_Down	R	98382-5	Right eye Vertical prism - down far by Phoropter	O
RefractionTest_Far_PrismY_Down	L	98383-3	Left eye Vertical prism - down far by Phoropter	O
RefractionTest_Far_VisualAcuity_ConditionType		98384-1	Visual acuity far testing condition by Phoropter LL5692-0 Visual Acuity Condition Types LA6626-1: "Normal" LA31309-0: "Pinhole" LA31310-8: "Contrast" LA31311-6: "Glare" LA31312-4: "Single Optotype" LA31313-2: "Crowded Optotype" LA31314-0: "Optokinetic"	M
RefractionTest_Far_VisualAcuity_ContrastValue		98385-8	Contrast ratio for far visual acuity measurement Phoropter	M [d]

SNOMED-CT® codes are referenced as examples of tags that indicate hierarchy. However, SNOMED-CT® codes are just samples and any other equivalent regional codes may be used.

[a]   The items in the Necessity column have the following meanings:

    M - Tags and values are mandatory

    O - Tags and values are optional

[b]   "Uncorrected" = unaided, "Current Lenses" = lensmeter measurements + visual acuity through lenses the patient usually wears, also called Habitual, "Objective" = autorefractor measurements + visual acuity, "Last Prescription" = manually entered previous prescription values, "Best Corrected" = final measurements, "Final Prescription" = current prescription

[c]   Required unless the patient is functionally monocular or if the refractive information is otherwise impossible to obtain

[d]   Required if <VAConditionType> is "Contrast"

[e]   At least one of the <VA> values (R, L, B) data elements shall be sent with a valid value. The units shall be consistent within each specific data element

    unit="ft" means Snellen for <Far> or Reduced Snellen for <Near>, represented in feet,

    as a denominator: 20/x (Note the value 20 is not sent)

    unit="m" means Snellen for <Far> or Reduced Snellen for <Near>, represented in meter,

    as a denominator: 6/x (Note the value 6 is not sent)

    unit="decimal" means Snellen for <Far> or Reduced Snellen for <Near>, represented as

    a decimal value

    unit="log" means visual acuity represented as logMAR

[f]   When providing Aniseikonia horizontal measurements, data elements <Horizontal>, <HorizontalRefEye> shall have a valid value. When providing Aniseikonia vertical measurements, data elements <Vertical>, <VerticalRefEye> shall have a valid value.

Table C.5 *(continued)*

Tag name	Eye	Code (LOINC®)	Description	Necessity[a]
RefractionTest_Far_VA	R	28667-4	Right eye Visual acuity far by Phoropter	M [e]
RefractionTest_Far_VA	L	28710-2	Left eye Visual acuity far by Phoropter	M [e]
RefractionTest_Far_VA	B	28711-0	Eye Visual acuity far.binocular by Phoropter	M [e]
RefractionTest_Far_PD	R	98386-6	Right eye Pupillary distance.monocular far by Phoropter	M
RefractionTest_Far_PD	L	98387-4	Left eye Pupillary distance.monocular far by Phoropter	O
RefractionTest_Far_PD	B	98388-2	Eye Pupillary distance.binocular far by Phoropter	O
RefractionTest_Near **(Layer 2)**		252888008 (SCTID)	Refraction assessment - near (procedure)	
RefractionTest_Near_ViewingDistance		98370-0	Phoropter Viewing distance	
RefractionTest_Near_Sphere	R	28712-8	Right eye Sphere near 1 by Phoropter	M [c]
RefractionTest_Near_Sphere	L	28724-3	Left eye Sphere near 1 by Phoropter	M [c]
RefractionTest_Near_Cylinder	R	28713-6	Right eye Cylinder near by Phoropter	M [c]
RefractionTest_Near_Cylinder	L	28725-0	Left eye Cylinder near by Phoropter	M [c]
RefractionTest_Near_Axis	R	28714-4	Right eye Axis near by Phoropter	M [c]
RefractionTest_Near_Axis	L	28726-8	Left eye Axis near by Phoropter	M [c]

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  M - Tags and values are mandatory

  O - Tags and values are optional

[b]   "Uncorrected" = unaided, "Current Lenses" = lensmeter measurements + visual acuity through lenses the patient usually wears, also called Habitual, "Objective" = autorefractor measurements + visual acuity, "Last Prescription" = manually entered previous prescription values, "Best Corrected" = final measurements, "Final Prescription" = current prescription

[c]   Required unless the patient is functionally monocular or if the refractive information is otherwise impossible to obtain

[d]   Required if <VAConditionType> is "Contrast"

[e]   At least one of the <VA> values (R, L, B) data elements shall be sent with a valid value. The units shall be consistent within each specific data element

  unit="ft" means Snellen for <Far> or Reduced Snellen for <Near>, represented in feet,

  as a denominator: 20/x (Note the value 20 is not sent)

  unit="m" means Snellen for <Far> or Reduced Snellen for <Near>, represented in meter,

  as a denominator: 6/x (Note the value 6 is not sent)

  unit="decimal" means Snellen for <Far> or Reduced Snellen for <Near>, represented as

  a decimal value

  unit="log" means visual acuity represented as logMAR

[f]   When providing Aniseikonia horizontal measurements, data elements <Horizontal>, <HorizontalRefEye> shall have a valid value. When providing Aniseikonia vertical measurements, data elements <Vertical>, <VerticalRefEye> shall have a valid value.

Table C.5 *(continued)*

Tag name	Eye	Code (LOINC®)	Description	Necessity[a]
RefractionTest_Near_Prism	R	98463-3	Right eye Prism near by Phoropter	O
RefractionTest_Near_Prism	L	98464-1	Left eye Prism near by Phoropter	O
RefractionTest_Near_PrismBase	R	98465-8	Right eye Prism base direction near by Phoropter	O
RefractionTest_Near_PrismBase	L	98466-6	Left eye Prism base direction near by Phoropter	O
RefractionTest_Near_PrismX_Out	R	98467-4	Right eye Horizontal prism - out near by Phoropter	O
RefractionTest_Near_PrismX_Out	L	98468-2	Left eye Horizontal prism - out near by Phoropter	O
RefractionTest_Near_PrismX_In	R	98469-0	Right eye Horizontal prism - in near by Phoropter	O
RefractionTest_Near_PrismX_In	L	98470-8	Left eye Horizontal prism - in near by Phoropter	O
RefractionTest_Near_PrismY_Up	R	98471-6	Right eye Vertical prism - up near by Phoropter	O
RefractionTest_Near_PrismY_Up	L	98472-4	Left eye Vertical prism - up near by Phoropter	O
RefractionTest_Near_PrismY_Down	R	98473-2	Right eye Vertical prism - down near by Phoropter	O
RefractionTest_Near_PrismY_Down	L	98474-0	Left eye Vertical prism - down near by Phoropter	O

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[c]   Required unless the patient is functionally monocular or if the refractive information is otherwise impossible to obtain

[d]   Required if <VAConditionType> is "Contrast"

[e]   At least one of the <VA> values (R, L, B) data elements shall be sent with a valid value. The units shall be consistent within each specific data element

   unit="ft" means Snellen for <Far> or Reduced Snellen for <Near>, represented in feet,

   as a denominator: 20/x (Note the value 20 is not sent)

   unit="m" means Snellen for <Far> or Reduced Snellen for <Near>, represented in meter,

   as a denominator: 6/x (Note the value 6 is not sent)

   unit="decimal" means Snellen for <Far> or Reduced Snellen for <Near>, represented as

   a decimal value

   unit="log" means visual acuity represented as logMAR

[f]   When providing Aniseikonia horizontal measurements, data elements <Horizontal>, <HorizontalRefEye> shall have a valid value. When providing Aniseikonia vertical measurements, data elements <Vertical>, <VerticalRefEye> shall have a valid value.

Table C.5 *(continued)*

Tag name	Eye	Code (LOINC®)	Description	Necessity[a]
RefractionTest_Near_VisualAcuity_ConditionType		98475-7	Visual acuity near testing condition by Phoropter	M
			LL5692-0 Visual Acuity Condition Types	
			LA6626-1: "Normal"	
			LA31309-0: "Pinhole"	
			LA31310-8: "Contrast"	
			LA31311-6: "Glare"	
			LA31312-4: "Single Optotype"	
			LA31313-2: "Crowded Optotype"	
			LA31314-0: "Optokinetic"	
RefractionTest_Near_VisualAcuity_ContrastValue		98476-5	Contrast ratio for near visual measurement by Phoropter	M [d]
RefractionTest_Near_VA	R	28719-3	Right eye Visual acuity near by Phoropter	M [e]
RefractionTest_Near_VA	L	55987-2	Left eye Visual acuity near by Phoropter	M [e]
RefractionTest_Near_VA	B	28737-5	Eye Visual acuity N.binocular by Phoropter	M [e]
RefractionTest_Near_PD	R	98477-3	Right eye Pupillary distance.monocular near by Phoropter	O
RefractionTest_Near_PD	L	98478-1	Left eye Pupillary distance.monocular near by Phoropter	O
RefractionTest_Near_PD	B	98479-9	Eye Pupillary distance.binocular near by Phoropter	M
RefractionTest_Intermediate **(Layer 2)**		252889000 (SCTID)	Refraction assessment - intermediate distance (procedure)	

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[c]   Required unless the patient is functionally monocular or if the refractive information is otherwise impossible to obtain

[d]   Required if <VAConditionType> is "Contrast"

[e]   At least one of the <VA> values (R, L, B) data elements shall be sent with a valid value. The units shall be consistent within each specific data element

   unit="ft" means Snellen for <Far> or Reduced Snellen for <Near>, represented in feet,

   as a denominator: 20/x (Note the value 20 is not sent)

   unit="m" means Snellen for <Far> or Reduced Snellen for <Near>, represented in meter,

   as a denominator: 6/x (Note the value 6 is not sent)

   unit="decimal" means Snellen for <Far> or Reduced Snellen for <Near>, represented as

   a decimal value

   unit="log" means visual acuity represented as logMAR

[f]   When providing Aniseikonia horizontal measurements, data elements <Horizontal>, <HorizontalRefEye> shall have a valid value. When providing Aniseikonia vertical measurements, data elements <Vertical>, <VerticalRefEye> shall have a valid value.

Table C.5 *(continued)*

Tag name	Eye	Code (LOINC®)	Description	Necessity[a]
RefractionTest_Intermediate_ViewingDistance		98370-0	Phoropter Viewing distance	
RefractionTest_Intermediate_Sphere	R	98434-4	Right eye Sphere intermediate by Phoropter	M [c]
RefractionTest_Intermediate_Sphere	L	98435-1	Left eye Sphere intermediate by Phoropter	M [c]
RefractionTest_Intermediate _Cylinder	R	98436-9	Right eye Cylinder intermediate by Phoropter	M [c]
RefractionTest_Intermediate_Cylinder	L	98437-7	Left eye Cylinder intermediate by Phoropter	M [c]
RefractionTest_Intermediate_Axis	R	98438-5	Right eye Axis intermediate by Phoropter	M [c]
RefractionTest_Intermediate_Axis	L	98439-3	Left eye Axis intermediate by Phoropter	M [c]
RefractionTest_Intermediate_Prism	R	98442-7	Right eye Prism intermediate by Phoropter	O
RefractionTest_Intermediate_Prism	L	98443-5	Left eye Prism intermediate by Phoropter	O
RefractionTest_Intermediate_PrismBase	R	98444-3	Right eye Prism base direction intermediate by Phoropter	O
RefractionTest_Intermediate_PrismBase	L	98445-0	Left eye Prism base direction intermediate by Phoropter	O
RefractionTest_Intermediate_PrismX_Out	R	98446-8	Right eye Horizontal prism - out intermediate by Phoropter	O
RefractionTest_Intermediate_PrismX_Out	L	98447-6	Left eye Horizontal prism - out intermediate by Phoropter	O

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[c] Required unless the patient is functionally monocular or if the refractive information is otherwise impossible to obtain

[d] Required if <VAConditionType> is "Contrast"

[e] At least one of the <VA> values (R, L, B) data elements shall be sent with a valid value. The units shall be consistent within each specific data element

unit="ft" means Snellen for <Far> or Reduced Snellen for <Near>, represented in feet,

as a denominator: 20/x (Note the value 20 is not sent)

unit="m" means Snellen for <Far> or Reduced Snellen for <Near>, represented in meter,

as a denominator: 6/x (Note the value 6 is not sent)

unit="decimal" means Snellen for <Far> or Reduced Snellen for <Near>, represented as

a decimal value

unit="log" means visual acuity represented as logMAR

[f] When providing Aniseikonia horizontal measurements, data elements <Horizontal>, <HorizontalRefEye> shall have a valid value. When providing Aniseikonia vertical measurements, data elements <Vertical>, <VerticalRefEye> shall have a valid value.

Table C.5 *(continued)*

Tag name	Eye	Code (LOINC®)	Description	Necessity[a]
RefractionTest_Intermediate_PrismX_In	R	98448-4	Right eye Horizontal prism - in intermediate by Phoropter	O
RefractionTest_Intermediate_PrismX_In	L	98449-2	Left eye Horizontal prism - in intermediate by Phoropter	O
RefractionTest_Intermediate_PrismY_Up	R	98450-0	Right eye Vertical prism - up intermediate by Phoropter	O
RefractionTest_Intermediate_PrismY_Up	L	98451-8	Left eye Vertical prism - up intermediate by Phoropter	O
RefractionTest_Intermediate_PrismY_Down	R	98452-6	Right eye Vertical prism - down intermediate by Phoropter	O
RefractionTest_Intermediate_PrismY_Down	L	98453-4	Left eye Vertical prism - down intermediate by Phoropter	O
RefractionTest_Intermediate_VisualAcuity_ConditionType		98454-2	Visual acuity intermediate testing condition by Phoropter LL5692-0 Visual Acuity Condition Types LA6626-1:"Normal" LA31309-0:"Pinhole" LA31310-8:"Contrast" LA31311-6:"Glare" LA31312-4:"Single Optotype" LA31313-2:"Crowded Optotype" LA31314-0:"Optokinetic"	M

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[c]   Required unless the patient is functionally monocular or if the refractive information is otherwise impossible to obtain

[d]   Required if <VAConditionType> is "Contrast"

[e]   At least one of the <VA> values (R, L, B) data elements shall be sent with a valid value. The units shall be consistent within each specific data element

   unit="ft" means Snellen for <Far> or Reduced Snellen for <Near>, represented in feet,

   as a denominator: 20/x (Note the value 20 is not sent)

   unit="m" means Snellen for <Far> or Reduced Snellen for <Near>, represented in meter,

   as a denominator: 6/x (Note the value 6 is not sent)

   unit="decimal" means Snellen for <Far> or Reduced Snellen for <Near>, represented as

   a decimal value

   unit="log" means visual acuity represented as logMAR

[f]   When providing Aniseikonia horizontal measurements, data elements <Horizontal>, <HorizontalRefEye> shall have a valid value. When providing Aniseikonia vertical measurements, data elements <Vertical>, <VerticalRefEye> shall have a valid value.

Table C.5 *(continued)*

Tag name	Eye	Code (LOINC®)	Description	Necessity[a]
RefractionTest_Intermediate_VisualAcuity_ContrastValue		98455-9	Contrast ratio for intermediate visual acuity measurement by Phoropter	M [d]
RefractionTest_Intermediate_VA	R	98456-7	Right eye Visual acuity intermediate by Phoropter	M [e]
RefractionTest_Intermediate_VA	L	98457-5	Left eye Visual acuity intermediate by Phoropter	M [e]
RefractionTest_Intermediate_VA	B	98458-3	Eye Visual acuity intermediate by Phoropter	M [e]
RefractionTest_Intermediate_PD	R	98459-1	Right eye Pupillary distance.monocular intermediate by Phoropter	M
RefractionTest_Intermediate_PD	L	98460-9	Left eye Pupillary distance.monocular intermediate by Phoropter	O
RefractionTest_Intermediate_PD	B	98461-7	Eye Pupillary distance.binocular intermediate by Phoropter	O
BinocularTest **(Layer 1)**		252848003 (SCTID)	Binocular vision test (procedure)	
BinocularTest_Stereopsis **(Layer 2)**		251763006 (SCTID)	Stereoscopic vision (observable entity)	

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[c] Required unless the patient is functionally monocular or if the refractive information is otherwise impossible to obtain

[d] Required if <VAConditionType> is "Contrast"

[e] At least one of the <VA> values (R, L, B) data elements shall be sent with a valid value. The units shall be consistent within each specific data element

    unit="ft" means Snellen for <Far> or Reduced Snellen for <Near>, represented in feet,

    as a denominator: 20/x (Note the value 20 is not sent)

    unit="m" means Snellen for <Far> or Reduced Snellen for <Near>, represented in meter,

    as a denominator: 6/x (Note the value 6 is not sent)

    unit="decimal" means Snellen for <Far> or Reduced Snellen for <Near>, represented as

    a decimal value

    unit="log" means visual acuity represented as logMAR

[f] When providing Aniseikonia horizontal measurements, data elements <Horizontal>, <HorizontalRefEye> shall have a valid value. When providing Aniseikonia vertical measurements, data elements <Vertical>, <VerticalRefEye> shall have a valid value.

Table C.5 *(continued)*

Tag name	Eye	Code (LOINC®)	Description	Necessity[a]
BinocularTest_Stereopsis_RefType [b]		98367-6	Phoropter Refraction type LL6028-6 Refraction type LA31303-3:"Uncorrected" LA31304-1:"Current Lenses" LA31305-8:"Objective" LA31307-4:"Last Prescription" LA31301-7:"Best Corrected" LA31300-9:"Final Prescription"	M
BinocularTest_Stereopsis_ViewingDistance		98370-0	Phoropter Viewing distance	O
BinocularTest_Stereopsis_Angle		98848-5	Eye Minimum stereopsis angle by Phoropter	M
BinocularTest_GrossDepthPerception **(Layer 2)**		421928009 (SCTID)	Stereo depth perception testing (procedure)	

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[c] Required unless the patient is functionally monocular or if the refractive information is otherwise impossible to obtain

[d] Required if <VAConditionType> is "Contrast"

[e] At least one of the <VA> values (R, L, B) data elements shall be sent with a valid value. The units shall be consistent within each specific data element

  unit="ft" means Snellen for <Far> or Reduced Snellen for <Near>, represented in feet,

  as a denominator: 20/x (Note the value 20 is not sent)

  unit="m" means Snellen for <Far> or Reduced Snellen for <Near>, represented in meter,

  as a denominator: 6/x (Note the value 6 is not sent)

  unit="decimal" means Snellen for <Far> or Reduced Snellen for <Near>, represented as

  a decimal value

  unit="log" means visual acuity represented as logMAR

[f] When providing Aniseikonia horizontal measurements, data elements <Horizontal>, <HorizontalRefEye> shall have a valid value. When providing Aniseikonia vertical measurements, data elements <Vertical>, <VerticalRefEye> shall have a valid value.

Table C.5 *(continued)*

Tag name	Eye	Code (LOINC®)	Description	Necessity[a]
BinocularTest_Gross-DepthPerception_RefType [b]		98367-6	Phoropter Refraction type LL6028-6 Refraction type LA31303-3:"Uncorrected" LA31304-1:"Current Lenses" LA31305-8:"Objective" LA31307-4:"Last Prescription" LA31301-7:"Best Corrected" LA31300-9:"Final Prescription"	O
BinocularTest_Gross-DepthPerception_ViewingDistance		98370-0	Phoropter Viewing distance	O
BinocularTest_Gross-DepthPerception_DepthPerceptionDetected		98849-3	Eye Depth perception by Phoropter	M
BinocularTest_Gross-DepthPerception_ThresholdAngle		98850-1	Eye Threshold angle for measuring depth perception by Phoropter Angle in seconds used for this test(e.g., 800 arc sec)	O
BinocularTest_Worth-4Dots **(Layer 2)**		415850001 (SCTID)	Worth four-dot test (procedure)	
BinocularTest_Worth-4Dots_Far **(Layer 3)**		251739003 (SCTID)	Distance visual acuity (observable entity)	

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[c]   Required unless the patient is functionally monocular or if the refractive information is otherwise impossible to obtain

[d]   Required if <VAConditionType> is "Contrast"

[e]   At least one of the <VA> values (R, L, B) data elements shall be sent with a valid value. The units shall be consistent within each specific data element

   unit="ft" means Snellen for <Far> or Reduced Snellen for <Near>, represented in feet,

   as a denominator: 20/x (Note the value 20 is not sent)

   unit="m" means Snellen for <Far> or Reduced Snellen for <Near>, represented in meter,

   as a denominator: 6/x (Note the value 6 is not sent)

   unit="decimal" means Snellen for <Far> or Reduced Snellen for <Near>, represented as

   a decimal value

   unit="log" means visual acuity represented as logMAR

[f]   When providing Aniseikonia horizontal measurements, data elements <Horizontal>, <HorizontalRefEye> shall have a valid value. When providing Aniseikonia vertical measurements, data elements <Vertical>, <VerticalRefEye> shall have a valid value.

Table C.5 *(continued)*

Tag name	Eye	Code (LOINC®)	Description	Necessity[a]
BinocularTest_Worth-4Dots_Far_ViewingDistance		98370-0	Phoropter Viewing distance	O
BinocularTest_Worth-4Dots_Far_Result		98735-4	Eye Worth 4 dot test far [Interpretation] LA32597-9: "Normal fusion" LA32598-7: "Diplopia" LA32599-5: "Right eye suppression" LA32600-1: "Left eye suppression"	M
BinocularTest_Worth-4Dots_Far_RedLensEye		98736-2	Eye that was covered with red lens during test LA4585-1:" Left" LA4306-2: "Right"	M
BinocularTest_Worth-4Dots_Near **(Layer 3)**		251743004 (SCTID)	Near visual acuity (observable entity)	
BinocularTest_Worth-4Dots_Near_ViewingDistance		98370-0	Phoropter Viewing distance	O
BinocularTest_Worth-4Dots_Near_Result		98737-0	Eye Worth 4 dot test near [Interpretation] LA32597-9: "Normal fusion" LA32598-7: "Diplopia" LA32599-5: "Right eye suppression" LA32600-1: "Left eye suppression"	M

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[c]   Required unless the patient is functionally monocular or if the refractive information is otherwise impossible to obtain

[d]   Required if <VAConditionType> is "Contrast"

[e]   At least one of the <VA> values (R, L, B) data elements shall be sent with a valid value. The units shall be consistent within each specific data element

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  as a denominator: 20/x (Note the value 20 is not sent)

  unit="m" means Snellen for <Far> or Reduced Snellen for <Near>, represented in meter,

  as a denominator: 6/x (Note the value 6 is not sent)

  unit="decimal" means Snellen for <Far> or Reduced Snellen for <Near>, represented as

  a decimal value

  unit="log" means visual acuity represented as logMAR

[f]   When providing Aniseikonia horizontal measurements, data elements <Horizontal>, <HorizontalRefEye> shall have a valid value. When providing Aniseikonia vertical measurements, data elements <Vertical>, <VerticalRefEye> shall have a valid value.

Table C.5 *(continued)*

Tag name	Eye	Code (LOINC®)	Description	Necessity[a]
BinocularTest_Worth-4Dots_Near_RedLensEye		98736-2	Eye that was covered with red lens during test LA4585-1: "Left" LA4306-2: "Right"	M
BinocularTest_ACA-Ratio **(Layer 2)**		251781009 (SCTID)	Ocular accommodation convergence/accommodation ratio (observable entity)	
BinocularTest_ACARatio_ACARatioType		98738-8	Type of AC/A ratio by by Phoropter LA32602-7: "Gradient" LA32601-9: "Calculated"	O
BinocularTest_ACARatio_Result		98739-6	Eye AC/A ratio by Phoropter	M
BinocularTest_Phoria **(Layer 2)**		14619009 (SCTID)	Phoria (disorder)	
BinocularTest_Phoria_Far **(Layer 3)**		251739003 (SCTID)	Distance visual acuity (observable entity)	

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[d] Required if <VAConditionType> is "Contrast"

[e] At least one of the <VA> values (R, L, B) data elements shall be sent with a valid value. The units shall be consistent within each specific data element

    unit="ft" means Snellen for <Far> or Reduced Snellen for <Near>, represented in feet,

    as a denominator: 20/x (Note the value 20 is not sent)

    unit="m" means Snellen for <Far> or Reduced Snellen for <Near>, represented in meter,

    as a denominator: 6/x (Note the value 6 is not sent)

    unit="decimal" means Snellen for <Far> or Reduced Snellen for <Near>, represented as

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    unit="log" means visual acuity represented as logMAR

[f] When providing Aniseikonia horizontal measurements, data elements <Horizontal>, <HorizontalRefEye> shall have a valid value. When providing Aniseikonia vertical measurements, data elements <Vertical>, <VerticalRefEye> shall have a valid value.

Table C.5 (continued)

Tag name	Eye	Code (LOINC®)	Description	Necessity[a]
BinocularTest_Phoria_Far_PhoriaType		98740-4	Type of Phoria exam method LA32603-5: "Polarized cross" LA32604-3: "Cross ring" LA32605-0: "Von Graefe" LA32606-8: "Maddox" LA32607-6: "Mallet" LA32608-4: "Schober"	O
BinocularTest_Phoria_Far_RefType [b]		98367-6	Phoropter Refraction type LL6028-6 Refraction type LA31303-3: "Uncorrected" LA31304-1: "Current Lenses" LA31305-8: "Objective" LA31307-4: "Last Prescription" LA31301-7: "Best Corrected" LA31300-9: "Final Prescription"	M
BinocularTest_Phoria_Far_ViewingDistance		98370-0	Phoropter Viewing distance	M
BinocularTest_Phoria_Far_Prism	R	98742-0	Right eye Prism for far phoria by Phoropter	O
BinocularTest_Phoria_Far_Prism	L	98743-8	Left eye Prism for far phoria by Phoropter	O
BinocularTest_Phoria_Far_PrismBase	R	98744-6	Right eye Prism base direction for far phoria by Phoropter	O

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[c]   Required unless the patient is functionally monocular or if the refractive information is otherwise impossible to obtain

[d]   Required if <VAConditionType> is "Contrast"

[e]   At least one of the <VA> values (R, L, B) data elements shall be sent with a valid value. The units shall be consistent within each specific data element

   unit="ft" means Snellen for <Far> or Reduced Snellen for <Near>, represented in feet,

   as a denominator: 20/x (Note the value 20 is not sent)

   unit="m" means Snellen for <Far> or Reduced Snellen for <Near>, represented in meter,

   as a denominator: 6/x (Note the value 6 is not sent)

   unit="decimal" means Snellen for <Far> or Reduced Snellen for <Near>, represented as

   a decimal value

   unit="log" means visual acuity represented as logMAR

[f]   When providing Aniseikonia horizontal measurements, data elements <Horizontal>, <HorizontalRefEye> shall have a valid value. When providing Aniseikonia vertical measurements, data elements <Vertical>, <VerticalRefEye> shall have a valid value.

Table C.5 *(continued)*

Tag name	Eye	Code (LOINC®)	Description	Necessity[a]
BinocularTest_Phoria_Far_PrismBase	L	98745-3	Left eye Prism base direction for far phoria by Phoropter	O
BinocularTest_Phoria_Far_PrismX_Out	R	98746-1	Right eye Horizontal prism - out for far phoria by Phoropter	O
BinocularTest_Phoria_Far_PrismX_Out	L	98747-9	Left eye Horizontal prism - out for far phoria by Phoropter	O
BinocularTest_Phoria_Far_PrismX_In	R	98748-7	Right eye Horizontal prism - in for far phoria by Phoropter	O
BinocularTest_Phoria_Far_PrismX_In	L	98749-5	Left eye Horizontal prism - in for far phoria by Phoropter	O
BinocularTest_Phoria_Far_PrismY_Up	R	98750-3	Right eye Vertical prism - up for far phoria by Phoropter	O
BinocularTest_Phoria_Far_PrismY_Up	L	98751-1	Left eye Vertical prism - up for far phoria by Phoropter	O
BinocularTest_Phoria_Far_PrismY_Down	R	98752-9	Right eye Vertical prism - down for far phoria by Phoropter	O
BinocularTest_Phoria_Far_PrismY_Down	L	98753-7	Left eye Vertical prism - down for far phoria by Phoropter	O
BinocularTest_Phoria_Near **(Layer 3)**		251743004 (SCTID)	Near visual acuity (observable entity)	

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   as a denominator: 20/x (Note the value 20 is not sent)

   unit="m" means Snellen for <Far> or Reduced Snellen for <Near>, represented in meter,

   as a denominator: 6/x (Note the value 6 is not sent)

   unit="decimal" means Snellen for <Far> or Reduced Snellen for <Near>, represented as

   a decimal value

   unit="log" means visual acuity represented as logMAR

[f]   When providing Aniseikonia horizontal measurements, data elements <Horizontal>, <HorizontalRefEye> shall have a valid value. When providing Aniseikonia vertical measurements, data elements <Vertical>, <VerticalRefEye> shall have a valid value.

Table C.5 (continued)

Tag name	Eye	Code (LOINC®)	Description	Necessity[a]
BinocularTest_Phoria_Near_PhoriaType		98740-4	Type of Phoria exam method LA32603-5: "Polarized cross" LA32604-3: "Cross ring" LA32605-0: "Von Graefe" LA32606-8: "Maddox" LA32607-6: "Mallet" LA32608-4: "Schober"	O
BinocularTest_Phoria_Near_RefType [b]		98367-6	Phoropter Refraction type LL6028-6 Refraction type LA31303-3: "Uncorrected" LA31304-1: "Current Lenses" LA31305-8: "Objective" LA31307-4: "Last Prescription" LA31301-7: "Best Corrected" LA31300-9: "Final Prescription"	M
BinocularTest_Phoria_Near_ViewingDistance		98370-0	Phoropter Viewing distance	M
BinocularTest_Phoria_Near_Prism	R	98754-5	Right eye Prism for near phoria by Phoropter	O
BinocularTest_Phoria_Near_Prism	L	98755-2	Left eye Prism for near phoria by Phoropter	O
BinocularTest_Phoria_Near_PrismBase	R	98756-0	Right eye Prism base direction for near phoria by Phoropter	O

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[c]   Required unless the patient is functionally monocular or if the refractive information is otherwise impossible to obtain

[d]   Required if <VAConditionType> is "Contrast"

[e]   At least one of the <VA> values (R, L, B) data elements shall be sent with a valid value. The units shall be consistent within each specific data element

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   as a denominator: 20/x (Note the value 20 is not sent)

   unit="m" means Snellen for <Far> or Reduced Snellen for <Near>, represented in meter,

   as a denominator: 6/x (Note the value 6 is not sent)

   unit="decimal" means Snellen for <Far> or Reduced Snellen for <Near>, represented as

   a decimal value

   unit="log" means visual acuity represented as logMAR

[f]   When providing Aniseikonia horizontal measurements, data elements <Horizontal>, <HorizontalRefEye> shall have a valid value. When providing Aniseikonia vertical measurements, data elements <Vertical>, <VerticalRefEye> shall have a valid value.

Table C.5 *(continued)*

Tag name	Eye	Code (LOINC®)	Description	Necessity[a]
BinocularTest_Phoria_Near_PrismBase	L	98757-8	Left eye Prism base direction for near phoria by Phoropter	O
BinocularTest_Phoria_Near_PrismX_Out	R	98758-6	Right eye Horizontal prism - out for near phoria by Phoropter	O
BinocularTest_Phoria_Near_PrismX_Out	L	98759-4	Left eye Horizontal prism - out for near phoria by Phoropter	O
BinocularTest_Phoria_Near_PrismX_In	R	98760-2	Right eye Horizontal prism - in for near phoria by Phoropter	O
BinocularTest_Phoria_Near_PrismX_In	L	98761-0	Left eye Horizontal prism - in for near phoria by Phoropter	O
BinocularTest_Phoria_Near_PrismY_Up	R	98762-8	Right eye Vertical prism - up for near phoria by Phoropter	O
BinocularTest_Phoria_Near_PrismY_Up	L	98763-6	Left eye Vertical prism - up for near phoria by Phoropter	O
BinocularTest_Phoria_Near_PrismY_Down	R	98764-4	Right eye Vertical prism - down for near phoria by Phoropter	O
BinocularTest_Phoria_Near_PrismY_Down	L	98765-1	Left eye Vertical prism - down for near phoria by Phoropter	O
BinocularTest_Vergence (Layer 2)		400927000 (SCTID)	Fusional vergence, function (observable entity)	
BinocularTest_Vergence_Far (Layer 3)		251739003 (SCTID)	Distance visual acuity (observable entity)	
BinocularTest_Vergence_Far_ViewingDistance		98370-0	Phoropter Viewing distance	O

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[c]   Required unless the patient is functionally monocular or if the refractive information is otherwise impossible to obtain

[d]   Required if <VAConditionType> is "Contrast"

[e]   At least one of the <VA> values (R, L, B) data elements shall be sent with a valid value. The units shall be consistent within each specific data element

    unit="ft" means Snellen for <Far> or Reduced Snellen for <Near>, represented in feet,

    as a denominator: 20/x (Note the value 20 is not sent)

    unit="m" means Snellen for <Far> or Reduced Snellen for <Near>, represented in meter,

    as a denominator: 6/x (Note the value 6 is not sent)

    unit="decimal" means Snellen for <Far> or Reduced Snellen for <Near>, represented as

    a decimal value

    unit="log" means visual acuity represented as logMAR

[f]   When providing Aniseikonia horizontal measurements, data elements <Horizontal>, <HorizontalRefEye> shall have a valid value. When providing Aniseikonia vertical measurements, data elements <Vertical>, <VerticalRefEye> shall have a valid value.

Table C.5 *(continued)*

Tag name	Eye	Code (LOINC®)	Description	Necessity[a]
BinocularTest_Vergence_Far_Divergence_Blur		98766-9	Far divergence blur by Phoropter	O
BinocularTest_Vergence_Far_Divergence_Break		98767-7	Far divergence break by Phoropter	O
BinocularTest_Vergence_Far_Divergence_Recover		98768-5	Far divergence recovery by Phoropter	O
BinocularTest_Vergence_Far_Convergence_Blur		98769-3	Far convergence blur by Phoropter	O
BinocularTest_Vergence_Far_Convergence_Break		98770-1	Far convergence break by Phoropter	O
BinocularTest_Vergence_Far_Convergence_Recover		98771-9	Far convergence recovery by Phoropter	O
BinocularTest_Vergence_Far_Infravergence_Eye		98772-7	Eye for far infravergence measurement LA4585-1: "Left" LA4306-2: "Right"	O
BinocularTest_Vergence_Far_Infravergence_Break		98773-5	Far infravergence break by Phoropter	O
BinocularTest_Vergence_Far_Infravergence_Recover		98774-3	Far infravergence recovery by Phoropter	O
BinocularTest_Vergence_Far_Supravergence_Eye		98775-0	Eye for far supravergence measurement LA4585-1: "Left" LA4306-2: "Right"	O

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[d] Required if <VAConditionType> is "Contrast"

[e] At least one of the <VA> values (R, L, B) data elements shall be sent with a valid value. The units shall be consistent within each specific data element

    unit="ft" means Snellen for <Far> or Reduced Snellen for <Near>, represented in feet,

    as a denominator: 20/x (Note the value 20 is not sent)

    unit="m" means Snellen for <Far> or Reduced Snellen for <Near>, represented in meter,

    as a denominator: 6/x (Note the value 6 is not sent)

    unit="decimal" means Snellen for <Far> or Reduced Snellen for <Near>, represented as

    a decimal value

    unit="log" means visual acuity represented as logMAR

[f] When providing Aniseikonia horizontal measurements, data elements <Horizontal>, <HorizontalRefEye> shall have a valid value. When providing Aniseikonia vertical measurements, data elements <Vertical>, <VerticalRefEye> shall have a valid value.

Table C.5 *(continued)*

Tag name	Eye	Code (LOINC®)	Description	Necessity[a]
BinocularTest_Vergence_Far_Supravergence_Break		98776-8	Far supravergence break by Phoropter	O
BinocularTest_Vergence_Far_Supravergence_Recover		98777-6	Far supravergence recovery by Phoropter	O
BinocularTest_Vergence_Near **(Layer 3)**		251743004 (SCTID)	Near visual acuity (observable entity)	
BinocularTest_Vergence_Near_ViewingDistance		98370-0	Phoropter Viewing distance	O
BinocularTest_Vergence_Near_Divergence_Blur		98778-4	Near divergence blur by Phoropter	O
BinocularTest_Vergence_Near_Divergence_Break		98779-2	Near divergence break by Phoropter	O
BinocularTest_Vergence_Near_Divergence_Recover		98780-0	Near divergence recovery by Phoropter	O
BinocularTest_Vergence_Near_Convergence_Blur		98781-8	Near convergence blur by Phoropter	O
BinocularTest_Vergence_Near_Convergence_Break		99133-1	Near convergence break by Phoropter	O
BinocularTest_Vergence_Near_Convergence_Recover		98782-6	Near convergence recovery by Phoropter	O

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unit="ft" means Snellen for <Far> or Reduced Snellen for <Near>, represented in feet,

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unit="m" means Snellen for <Far> or Reduced Snellen for <Near>, represented in meter,

as a denominator: 6/x (Note the value 6 is not sent)

unit="decimal" means Snellen for <Far> or Reduced Snellen for <Near>, represented as

a decimal value

unit="log" means visual acuity represented as logMAR

[f] When providing Aniseikonia horizontal measurements, data elements <Horizontal>, <HorizontalRefEye> shall have a valid value. When providing Aniseikonia vertical measurements, data elements <Vertical>, <VerticalRefEye> shall have a valid value.

Table C.5 *(continued)*

Tag name	Eye	Code (LOINC®)	Description	Necessity[a]
BinocularTest_Vergence_Near_Infravergence_Eye		98783-4	Eye for near infravergence measurement LA4585-1: "Left" LA4306-2: "Right"	O
BinocularTest_Vergence_Near_Infravergence_Break		98784-2	Near infravergence break by Phoropter	O
BinocularTest_Vergence_Near_Infravergence_Recover		98785-9	Near infravergence recovery by Phoropter	O
BinocularTest_Vergence_Near_Supravergence_Eye		98786-7	Eye for near supravergence measurement LA4585-1: "Left" LA4306-2: "Right"	O
BinocularTest_Vergence_Near_Supravergence_Break		98787-5	Near supravergence break by Phoropter	O
BinocularTest_Vergence_Near_Supravergence_Recover		98788-3	Near supravergence recovery by Phoropter	O
BinocularTest_Aniseikonia **(Layer 2)**		16059006 (SCTID)	Aniseikonia (disorder)	

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   unit="ft" means Snellen for <Far> or Reduced Snellen for <Near>, represented in feet,

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   unit="m" means Snellen for <Far> or Reduced Snellen for <Near>, represented in meter,

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   unit="decimal" means Snellen for <Far> or Reduced Snellen for <Near>, represented as

   a decimal value

   unit="log" means visual acuity represented as logMAR

[f]   When providing Aniseikonia horizontal measurements, data elements <Horizontal>, <HorizontalRefEye> shall have a valid value. When providing Aniseikonia vertical measurements, data elements <Vertical>, <VerticalRefEye> shall have a valid value.

Table C.5 *(continued)*

Tag name	Eye	Code (LOINC®)	Description	Necessity[a]
BinocularTest_Aniseikonia_RefCorrectType [b]		98367-6	Phoropter Refraction type LL6028-6 Refraction type LA31303-3: "Uncorrected" LA31304-1: "Current Lenses" LA31305-8: "Objective" LA31307-4: "Last Prescription" LA31301-7: "Best Corrected" LA31300-9: "Final Prescription"	M
BinocularTest_Aniseikonia_Horizontal		98801-4	Eye Horizontal aniseikonia by Phoropter The difference in size shall be provided as a percent, e.g., 3,5% or 7%.	M [f]
BinocularTest_Aniseikonia_HorizontalRefEye		98802-2	Eye that sees the larger image in horizontal aniseikonia LA4585-1: "Left" LA4306-2: "Right" Identifies which eye sees larger objects in the horizontal direction.	M [f]
BinocularTest_Aniseikonia_Vertical		98803-0	Eye Vertical aniseikonia by Phoropter	M [f]

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    unit="m" means Snellen for <Far> or Reduced Snellen for <Near>, represented in meter,

    as a denominator: 6/x (Note the value 6 is not sent)

    unit="decimal" means Snellen for <Far> or Reduced Snellen for <Near>, represented as

    a decimal value

    unit="log" means visual acuity represented as logMAR

[f]   When providing Aniseikonia horizontal measurements, data elements <Horizontal>, <HorizontalRefEye> shall have a valid value. When providing Aniseikonia vertical measurements, data elements <Vertical>, <VerticalRefEye> shall have a valid value.

Table C.5 (continued)

Tag name	Eye	Code (LOINC®)	Description	Necessity[a]
BinocularTest_Aniseiko-nia_VerticalRefEye		98804-8	Eye that sees the larger image in vertical aniseikonia LA4585-1: "Left" LA4306-2: "Right" Identifies which eye sees larger objects in the vertical direction.	M [f]
BinocularTest_ Accommodativeinsufficiency **(Layer 2)**		232140004 (SCTID)	Accommodative insufficiency (disorder)	
BinocularTest_Relative-Accommodation_NRA		98911-1	Negative relative accommodation blur by Phoropter	O
BinocularTest_Relative-Accommodation_PRA		98912-9	Positive relative accommodation blur by Phoropter	O
BinocularTest_MonocularAccommodative-Lag **(Layer 3)**		54055001 (SCTID)	Monocular vision, function (observable entity)	
BinocularTest_MonocularAccommodativeLag_RefType		98367-6	Refraction Type for Monocular Accommodative Lag	O
BinocularTest_MonocularAccommodativeLag_RefLensValue		98741-2	Eye Lens used for testing by Phoropter	O
BinocularTest_MonocularAccommodative-Lag_ADD	R	98805-5	Right eye Add for monocular accommodative lag by Phoropter	O

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　　as a denominator: 6/x (Note the value 6 is not sent)

　　unit="decimal" means Snellen for <Far> or Reduced Snellen for <Near>, represented as

　　a decimal value

　　unit="log" means visual acuity represented as logMAR

[f]   When providing Aniseikonia horizontal measurements, data elements <Horizontal>, <HorizontalRefEye> shall have a valid value. When providing Aniseikonia vertical measurements, data elements <Vertical>, <VerticalRefEye> shall have a valid value.

Table C.5 *(continued)*

Tag name	Eye	Code (LOINC®)	Description	Necessity[a]
BinocularTest_MonocularAccommodative-Lag_ADD	L	98806-3	Left eye Add for monocular accommodative lag by Phoropter	O
BinocularTest_Phoria_MonocularAccommodativeLag_PrismX_Out	R	98809-7	Right eye Horizontal prism - out for monocular accommodative lag by Phoropter	O
BinocularTest_Phoria_MonocularAccommodativeLag_PrismX_Out	L	98810-5	Left eye Horizontal prism - out for monocular accommodative lag by Phoropter	O
BinocularTest_Phoria_MonocularAccommodativeLag_PrismX_In	R	98811-3	Right eye Horizontal prism - in for monocular accommodative lag by Phoropter	O
BinocularTest_Phoria_MonocularAccommodativeLag_PrismX_In	L	98812-1	Left eye Horizontal prism - in for monocular accommodative lag by Phoropter	O
BinocularTest_BinocularAccommodativeLag **(Layer 3)**		68362006 (SCTID)	Binocular vision observable (observable entity)	
BinocularTest_BinocularAccommodativeLag_RefType		98367-6	Phoropter Refraction type	O
BinocularTest_BinocularAccommodativeLag_RefLensValue		98741-2	Eye Lens used for testing by Phoropter Refraction Lens Value for Binocular Accommodative Lag	O
BinocularTest_BinocularAccommodative-Lag_ADD	R	98807-1	Right eye Add for binocular accommodative lag by Phoropter	O

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unit="ft" means Snellen for <Far> or Reduced Snellen for <Near>, represented in feet,

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unit="m" means Snellen for <Far> or Reduced Snellen for <Near>, represented in meter,

as a denominator: 6/x (Note the value 6 is not sent)

unit="decimal" means Snellen for <Far> or Reduced Snellen for <Near>, represented as

a decimal value

unit="log" means visual acuity represented as logMAR

[f] When providing Aniseikonia horizontal measurements, data elements <Horizontal>, <HorizontalRefEye> shall have a valid value. When providing Aniseikonia vertical measurements, data elements <Vertical>, <VerticalRefEye> shall have a valid value.

Table C.5 *(continued)*

Tag name	Eye	Code (LOINC®)	Description	Necessity[a]
BinocularTest_BinocularAccommodativeLag_ADD	L	98808-9	Left eye Add for binocular accommodative lag by Phoropter	O
BinocularTest_Phoria_BinocularAccommodativeLag_PrismX_In	R	98813-9	Right eye Horizontal prism - in for binocular accommodative lag by Phoropter	O
BinocularTest_Phoria_BinocularAccommodativeLag_PrismX_In	L	98814-7	Left eye Horizontal prism - in for binocular accommodative lag by Phoropter	O
BinocularTest_Phoria_BinocularAccommodativeLag_PrismX_Out	R	98815-4	Right eye Horizontal prism - out for binocular accommodative lag by Phoropter	O
BinocularTest_Phoria_BinocularAccommodativeLag_PrismX_Out	L	98816-2	Left eye Horizontal prism - out for binocular accommodative lag by Phoropter	O
BinocularTest_AccomodationMinusLens **(Layer 3)**		421062007 (SCTID)	Convex ophthalmic lens (physical object)	
BinocularTest_AccomodationMinusLens_RefType		98367-6	Phoropter Refraction type	O
BinocularTest_AccomodationMinusLens_RefLensValue		98741-2	Eye Lens used for testing by Phoropter	O
BinocularTest_AccomodationMinusLens		98851-9	Eye Accommodation using minus lens by Phoropter	O

SNOMED-CT® codes are referenced as examples of tags that indicate hierarchy. However, SNOMED-CT® codes are just samples and any other equivalent regional codes may be used.

[a]   The items in the Necessity column have the following meanings:

    M - Tags and values are mandatory

    O - Tags and values are optional

[b]   "Uncorrected" = unaided, "Current Lenses" = lensmeter measurements + visual acuity through lenses the patient usually wears, also called Habitual, "Objective" = autorefractor measurements + visual acuity, "Last Prescription" = manually entered previous prescription values, "Best Corrected" = final measurements, "Final Prescription" = current prescription

[c]   Required unless the patient is functionally monocular or if the refractive information is otherwise impossible to obtain

[d]   Required if <VAConditionType> is "Contrast"

[e]   At least one of the <VA> values (R, L, B) data elements shall be sent with a valid value. The units shall be consistent within each specific data element

    unit="ft" means Snellen for <Far> or Reduced Snellen for <Near>, represented in feet,

    as a denominator: 20/x (Note the value 20 is not sent)

    unit="m" means Snellen for <Far> or Reduced Snellen for <Near>, represented in meter,

    as a denominator: 6/x (Note the value 6 is not sent)

    unit="decimal" means Snellen for <Far> or Reduced Snellen for <Near>, represented as

    a decimal value

    unit="log" means visual acuity represented as logMAR

[f]   When providing Aniseikonia horizontal measurements, data elements <Horizontal>, <HorizontalRefEye> shall have a valid value. When providing Aniseikonia vertical measurements, data elements <Vertical>, <VerticalRefEye> shall have a valid value.

Table C.5 *(continued)*

Tag name	Eye	Code (LOINC®)	Description	Necessity[a]
BinocularTest_Near-PointConvergence **(Layer 3)**		246710007 (SCTID)	Convergence near point (observable entity)	
BinocularTest_Near-PointConvergence_ViewingDistance		98370-0	Phoropter Viewing distance	O
BinocularTest_Near-PointConvergence_MA		98817-0	Eye Meter angle for near point convergence by Phoropter	O
BinocularTest_Near-PointConvergence_Prism		98818-8	Eye Prism for near point convergence by Phoropter	O

SNOMED-CT® codes are referenced as examples of tags that indicate hierarchy. However, SNOMED-CT® codes are just samples and any other equivalent regional codes may be used.

[a] The items in the Necessity column have the following meanings:

  M - Tags and values are mandatory

  O - Tags and values are optional

[b] "Uncorrected" = unaided, "Current Lenses" = lensmeter measurements + visual acuity through lenses the patient usually wears, also called Habitual, "Objective" = autorefractor measurements + visual acuity, "Last Prescription" = manually entered previous prescription values, "Best Corrected" = final measurements, "Final Prescription" = current prescription

[c] Required unless the patient is functionally monocular or if the refractive information is otherwise impossible to obtain

[d] Required if <VAConditionType> is "Contrast"

[e] At least one of the <VA> values (R, L, B) data elements shall be sent with a valid value. The units shall be consistent within each specific data element

  unit="ft" means Snellen for <Far> or Reduced Snellen for <Near>, represented in feet,

  as a denominator: 20/x (Note the value 20 is not sent)

  unit="m" means Snellen for <Far> or Reduced Snellen for <Near>, represented in meter,

  as a denominator: 6/x (Note the value 6 is not sent)

  unit="decimal" means Snellen for <Far> or Reduced Snellen for <Near>, represented as

  a decimal value

  unit="log" means visual acuity represented as logMAR

[f] When providing Aniseikonia horizontal measurements, data elements <Horizontal>, <HorizontalRefEye> shall have a valid value. When providing Aniseikonia vertical measurements, data elements <Vertical>, <VerticalRefEye> shall have a valid value.

Table C.6 — Hierarchical structure of PHOR tags

PHOR
RefractionTest (Layer 1)
 RefractionTest_RefType RefractionTest_CVD
 RefractionTest_Far (Layer 2) RefractionTest_Far_ViewingDistance RefractionTest_Far_Sphere (Right) RefractionTest_Far_Sphere (Left) RefractionTest_Far_Cylinder (Right)

Table C.6 *(continued)*

PHOR
RefractionTest_Far_Cylinder (Left)
RefractionTest_Far_Axis (Right)
RefractionTest_Far_Axis (Left)
RefractionTest_Far_Prism (Right)
RefractionTest_Far_Prism (Left)
RefractionTest_Far_PrismBase (Right)
RefractionTest_Far_PrismBase (Left)
RefractionTest_Far_PrismX_Out (Right)
RefractionTest_Far_PrismX_Out (Left)
RefractionTest_Far_PrismX_In (Right)
RefractionTest_Far_PrismX_In (Left)
RefractionTest_Far_PrismY_Up (Right)
RefractionTest_Far_PrismY_Up (Left)
RefractionTest_Far_PrismY_Down (Right)
RefractionTest_Far_PrismY_Down (Left)
RefractionTest_Far_VisualAcuity_ConditionType
RefractionTest_Far_VisualAcuity_ContrastValue
RefractionTest_Far_VA (Right)
RefractionTest_Far_VA (Left)
RefractionTest_Far_VA (Both)
RefractionTest_Far_PD (Right)
RefractionTest_Far_PD (Left)
RefractionTest_Far_PD (Both)
RefractionTest_Near (Layer 2)
RefractionTest_Near_ViewingDistance
RefractionTest_Near_Sphere (Right)
RefractionTest_Near_Sphere (Left)
RefractionTest_Near_Cylinder (Right)
RefractionTest_Near_Cylinder (Left)
RefractionTest_Near_Axis (Right)
RefractionTest_Near_Axis (Left)
RefractionTest_Near_Prism (Right)
RefractionTest_Near_Prism (Left)
RefractionTest_Near_PrismBase (Right)
RefractionTest_Near_PrismBase (Left)
RefractionTest_Near_PrismX_Out (Right)
RefractionTest_Near_PrismX_Out (Left)
RefractionTest_Near_PrismX_In (Right)
RefractionTest_Near_PrismX_In (Left)
RefractionTest_Near_PrismY_Up (Right)
RefractionTest_Near_PrismY_Up (Left)
RefractionTest_Near_PrismY_Down (Right)
RefractionTest_Near_PrismY_Down (Left)

Table C.6 *(continued)*

PHOR

RefractionTest_Near_VisualAcuity_ConditionType

RefractionTest_Near_VisualAcuity_ContrastValue

RefractionTest_Near_VA (Right)

RefractionTest_Near_VA (Left)

RefractionTest_Near_VA (Both)

RefractionTest_Near_PD (Right)

RefractionTest_Near_PD (Left)

RefractionTest_Near_PD (Both)

RefractionTest_Intermediate (Layer 2)

RefractionTest_Intermediate_ViewingDistance

RefractionTest_Intermediate_Sphere (Right)

RefractionTest_Intermediate_Sphere (Left)

RefractionTest_Intermediate_Cylinder (Right)

RefractionTest_Intermediate_Cylinder (Left)

RefractionTest_Intermediate_Axis (Right)

RefractionTest_Intermediate_Axis (Left)

RefractionTest_Intermediate_Prism (Right)

RefractionTest_Intermediate_Prism (Left)

RefractionTest_Intermediate_PrismBase (Right)

RefractionTest_Intermediate_PrismBase (Left)

RefractionTest_Intermediate_PrismX_Out (Right)

RefractionTest_Intermediate_PrismX_Out (Left)

RefractionTest_Intermediate_PrismX_In (Right)

RefractionTest_Intermediate_PrismX_In (Left)

RefractionTest_Intermediate_PrismY_Up (Right)

RefractionTest_Intermediate_PrismY_Up (Left)

RefractionTest_Intermediate_PrismY_Down (Right)

RefractionTest_Intermediate_PrismY_Down (Left)

RefractionTest_Intermediate_VisualAcuity_ConditionType

RefractionTest_Intermediate_VisualAcuity_ContrastValue

RefractionTest_Intermediate_VA (Right)

RefractionTest_Intermediate_VA (Left)

RefractionTest_Intermediate_VA (Both)

RefractionTest_Intermediate_PD (Right)

RefractionTest_Intermediate_PD (Left)

RefractionTest_Intermediate_PD (Both)

BinocularTest (Layer 1)

BinocularTest_Stereopsis (Layer 2)

BinocularTest_Stereopsis_RefType

BinocularTest_Stereopsis_ViewingDistance

BinocularTest_Stereopsis_Angle

Table C.6 *(continued)*

PHOR

BinocularTest_GrossDepthPerception (Layer 2)

    BinocularTest_GrossDepthPerception_RefType

    BinocularTest_GrossDepthPerception_ViewingDistance

    BinocularTest_GrossDepthPerception_DepthPerceptionDetected

    BinocularTest_GrossDepthPerception_ThresholdAngle

BinocularTest_Worth4Dots (Layer 2)

    BinocularTest_Worth4Dots_Far (Layer 3)

        BinocularTest_Worth4Dots_Far_ViewingDistance

        BinocularTest_Worth4Dots_Far_Result

        BinocularTest_Worth4Dots_Far_RedLensEye

    BinocularTest_Worth4Dots_Near (Layer 3)

        BinocularTest_Worth4Dots_Near_ViewingDistance

        BinocularTest_Worth4Dots_Near_Result

        BinocularTest_Worth4Dots_Near_RedLensEye

BinocularTest_ACARatio (Layer 2)

    BinocularTest_ACARatio_ACARatioType

    BinocularTest_ACARatio_Result

BinocularTest_Phoria (Layer 2)

    BinocularTest_Phoria_Far (Layer 3)

        BinocularTest_Phoria_Far_PhoriaType

        BinocularTest_Phoria_Far_RefType a

        BinocularTest_Phoria_Far_ViewingDistance

        BinocularTest_Phoria_Far_Prism (Right)

        BinocularTest_Phoria_Far_Prism (Left)

        BinocularTest_Phoria_Far_PrismBase (Right)

        BinocularTest_Phoria_Far_PrismBase (Left)

        BinocularTest_Phoria_Far_PrismX_Out (Right)

        BinocularTest_Phoria_Far_PrismX_Out (Left)

        BinocularTest_Phoria_Far_PrismX_In (Right)

        BinocularTest_Phoria_Far_PrismX_In (Left)

        BinocularTest_Phoria_Far_PrismY_Up (Right)

        BinocularTest_Phoria_Far_PrismY_Up (Left)

        BinocularTest_Phoria_Far_PrismY_Down (Right)

        BinocularTest_Phoria_Far_PrismY_Down (Left)

    BinocularTest_Phoria_Near (Layer 3)

        BinocularTest_Phoria_Near_PhoriaType

Table C.6 *(continued)*

PHOR

BinocularTest_Phoria_Near_RefType

BinocularTest_Phoria_Near_ViewingDistance

BinocularTest_Phoria_Near_Prism (Right)

BinocularTest_Phoria_Near_Prism (Left)

BinocularTest_Phoria_Near_PrismBase (Right)

BinocularTest_Phoria_Near_PrismBase (Left)

BinocularTest_Phoria_Near_PrismX_Out (Right)

BinocularTest_Phoria_Near_PrismX_Out (Left)

BinocularTest_Phoria_Near_PrismX_In (Right)

BinocularTest_Phoria_Near_PrismX_In (Left)

BinocularTest_Phoria_Near_PrismY_Up (Right)

BinocularTest_Phoria_Near_PrismY_Up (Left)

BinocularTest_Phoria_Near_PrismY_Down (Right)

BinocularTest_Phoria_Near_PrismY_Down (Left)

BinocularTest_Vergence (Layer 2)

BinocularTest_Vergence_Far (Layer 3)

BinocularTest_Vergence_Far_ViewingDistance

BinocularTest_Vergence_Far_Divergence_Blur

BinocularTest_Vergence_Far_Divergence_Break

BinocularTest_Vergence_Far_Divergence_Recover

BinocularTest_Vergence_Far_Convergence_Blur

BinocularTest_Vergence_Far_Convergence_Break

BinocularTest_Vergence_Far_Convergence_Recover

BinocularTest_Vergence_Far_Infravergence_Eye

BinocularTest_Vergence_Far_Infravergence_Break

BinocularTest_Vergence_Far_Infravergence_Recover

BinocularTest_Vergence_Far_Supravergence_Eye

BinocularTest_Vergence_Far_Supravergence_Break

BinocularTest_Vergence_Far_Supravergence_Recover

BinocularTest_Vergence_Near (Layer 3)

BinocularTest_Vergence_Near_ViewingDistance

BinocularTest_Vergence_Near_Divergence_Blur

BinocularTest_Vergence_Near_Divergence_Break

BinocularTest_Vergence_Near_Divergence_Recover

BinocularTest_Vergence_Near_Convergence_Blur

BinocularTest_Vergence_Near_Convergence_Break

BinocularTest_Vergence_Near_Convergence_Recover

BinocularTest_Vergence_Near_Infravergence_Eye

BinocularTest_Vergence_Near_Infravergence_Break

BinocularTest_Vergence_Near_Infravergence_Recover

BinocularTest_Vergence_Near_Supravergence_Eye

Table C.6 *(continued)*

PHOR

BinocularTest_Vergence_Near_Supravergence_Break

BinocularTest_Vergence_Near_Supravergence_Recover

BinocularTest_Aniseikonia (Layer 2)

BinocularTest_Aniseikonia_RefCorrectType a

BinocularTest_Aniseikonia_Horizontal

BinocularTest_Aniseikonia_HorizontalRefEye

BinocularTest_Aniseikonia_Vertical

BinocularTest_Aniseikonia_VerticalRefEye

BinocularTest_ AccommodativeInsufficiency (Layer 2)

BinocularTest_RelativeAccommodation_NRA

BinocularTest_RelativeAccommodation_PRA

BinocularTest_MonocularAccommodativeLag (Layer 3)

BinocularTest_MonocularAccommodativeLag_RefType

BinocularTest_MonocularAccommodativeLag_RefLensValue

BinocularTest_MonocularAccommodativeLag_ADD

BinocularTest_MonocularAccommodativeLag_ADD

BinocularTest_BinocularAccommodativeLag (Layer 3)

BinocularTest_BinocularAccommodativeLag_RefType

BinocularTest_BinocularAccommodativeLag_RefLensValue

BinocularTest_BinocularAccommodativeLag_ADD (Right)

BinocularTest_BinocularAccommodativeLag_ADD

BinocularTest_Phoria_MonocularAccommodativeLag_PrismX_Out (Right)

BinocularTest_Phoria_MonocularAccommodativeLag_PrismX_Out (Left)

BinocularTest_Phoria_MonocularAccommodativeLag_PrismX_In (Right)

BinocularTest_Phoria_MonocularAccommodativeLag_PrismX_In (Left)

BinocularTest_Phoria_BinocularAccommodativeLag_PrismX_In (Right)

BinocularTest_Phoria_BinocularAccommodativeLag_PrismX_In (Left)

BinocularTest_Phoria_BinocularAccommodativeLag_PrismX_Out (Right)

BinocularTest_Phoria_BinocularAccommodativeLag_PrismX_Out (Left)

BinocularTest_AccomodationMinusLens (Layer 3)

BinocularTest_AccomodationMinusLens_RefType

BinocularTest_AccomodationMinusLens_RefLensValue

BinocularTest_AccomodationMinusLens

BinocularTest_NearPointConvergence (Layer 3)

BinocularTest_NearPointConvergence_ViewingDistance

BinocularTest_NearPointConvergence_MA

BinocularTest_NearPointConvergence_Prism

Annex D
(informative)

Sample files

D.1 Common data (Complete CDA)

```
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<?xml version="1.0" encoding="utf-8"?>

<ClinicalDocument xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd" xmlns:voc="urn:hl7-org:v3/voc"
xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance">
 <typeId root="2.16.840.1.113883.1.3" extension="POCD_HD000040"/>
 <id extension="xxxx" root="2.16.392.9.999999.9.9"/>
 <code code="78513-9" displayName="Ophthalmology" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
 <title>Ophthalmology</title>
 <effectiveTime value="20080901193628"/>
 <confidentialityCode code="N" codeSystem="2.16.840.1.113883.5.25"/>
 <languageCode code="jpn"/>
 <versionNumber value="1"/>
 <recordTarget>
  <patientRole>
   <id root="1.2.16.392.9.888888.9.9.12345678901" extension="123456"/>
   <id root="1.2.16.392.9.777777.9.9.98765432101" extension="ABCDEFG"/>
   <patient>
    <name use="ABC">
     <family>TAROU</family>
     <given>TANAKA</given>
    </name>
    <administrativeGenderCode codeSystem="2.16.840.1.113883.5.1" code="M"
displayName="male"/>
    <birthTime value="19750816"/>
   </patient>
  </patientRole>
 </recordTarget>
 <author>
  <time value="20080901193628"/>
  <assignedAuthor>
   <id nullFlavor="NI"/>
   <assignedAuthoringDevice>
    <manufacturerModelName codeSystemVersion="1234">ABC-123</manufacturerModelName>
    <softwareName codeSystemVersion="1.0">1.4</softwareName>
   </assignedAuthoringDevice>
   <representedOrganization>
    <id nullFlavor="NI"/>
    <name>ABCD</name>
   </representedOrganization>
  </assignedAuthor>
 </author>
 <custodian>
  <assignedCustodian>
   <representedCustodianOrganization>
```

```
        <id nullFlavor="NI"/>
      </representedCustodianOrganization>
    </assignedCustodian>
  </custodian>
  <documentationOf>
    <serviceEvent classCode="ACSN">
      <code code="78513-9" displayName="Ophthalmology" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
      <performer typeCode="PRF">
        <functionCode code="SNRS" displayName="operator" codeSystemName="HL7 v3"
codeSystem="2.16.840.1.113883.5.88"/>
        <assignedEntity>
          <id root="1.2.16.392.9.777777.9.9.12345678901" extension="123456"/>
          <id root="1.2.16.392.9.777777.9.9.98765432101" extension="ABCDEFG"/>
        </assignedEntity>
      </performer>
    </serviceEvent>
  </documentationOf>
  <component>
    <structuredBody>
      <component>

        Examination data ( D.3 REF, D.4 KM D.5 TM, D.6 LM, D.7 PHOR )

      </component>
    </structuredBody>
  </component>
</ClinicalDocument>
========================================================================
```

D.2 Common data (deviceCDA)

```
========================================================================
<?xml version="1.0" encoding="utf-8"?>
<ClinicalDocument xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd" xmlns:voc="urn:hl7-org:v3/voc"
xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance">
  <typeId root="2.16.840.1.113883.1.3" extension="POCD_HD000040UV00"/>
  <id extension="xxxx" root="2.16.392.9.999999.9.9"/>
  <code code="78513-9" displayName="Ophthalmology" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
  <title>Ophthalmology</title>
  <confidentialityCode code="N" codeSystem="2.16.840.1.113883.5.25"/>
  <languageCode code="jpn"/>
  <versionNumber value="1"/>
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    <patientRole>
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    </patientRole>
  </recordTarget>
  <author>
    <time value="20080901193628"/>
    <assignedAuthor>
      <id nullFlavor="NI"/>
      <assignedAuthoringDevice>
        <manufacturerModelName codeSystemVersion="1234">ABC-123</manufacturerModelName>
        <softwareName codeSystemVersion="1.0">1.4</softwareName>
      </assignedAuthoringDevice>
```

```
    <representedOrganization>
     <id nullFlavor="NI"/>
     <name>ABCD</name>
    </representedOrganization>
   </assignedAuthor>
  </author>
 <component>
  <structuredBody>
   <component>

   Examination data ( D.3 REF, D.4 KM D.5 TM, D.6 LM, D.7 PHOR )

   </component>
  </structuredBody>
 </component>
</ClinicalDocument>
```

===

D.3   REF (Refractometer)

===

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<section>
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codeSystemName="LOINC"/>
 <title>REF Data</title>
 <text>
 <html>
  <table>
   <tbody>
    <tr>
     <td>REFVD</td>
     <td>12,00mm</td>
    </tr>
    <tr>
     <td>REFDiopterStep</td>
     <td>0,25Diopter</td>
    </tr>
    <tr>
     <td>REFAxisStep</td>
     <td>5Degrees</td>
    </tr>
    <tr>
     <td>REFCylinderMode</td>
     <td>-</td>
    </tr>
   </tbody>
  </table>
  <br></br>
  Right
  <br></br>
  <table>
   <thead>
    <tr>
     <td>No.</td>
     <td>Sphere</td>
     <td>Cylinder</td>
```

```
     <td>Axis</td>
     <td>SE</td>
     <td>CataractMode</td>
     <td>IOLMode</td>
    </tr>
   </thead>
  <tbody>
   <tr>
    <td>1</td>
    <td>-2,50Diopter</td>
    <td>0,25Diopter</td>
    <td>180Degrees</td>
    <td>1</td>
    <td>1</td>
    <td>9</td>
   </tr>
   <tr>
    <td>2</td>
    <td>-</td>
    <td>-</td>
    <td>-</td>
   </tr>
   <tr>
    <td>3</td>
    <td>-0,50Diopter</td>
    <td>0,50Diopter</td>
    <td>90Degrees</td>
    <td>-2,75Diopter</td>
    <td>1</td>
    <td>1</td>
   </tr>
  </tbody>
 </table>
<br></br>
 Left
<br></br>
<table>
  <thead>
   <tr>
    <td>No.</td>
    <td>Sphere</td>
    <td>Cylinder</td>
    <td>Axis</td>
    <td>SE</td>
    <td>CataractMode</td>
    <td>IOLMode</td>
   </tr>
  </thead>
  <tbody>
   <tr>
    <td>1</td>
    <td>-2,50Diopter</td>
    <td>0,50Diopter</td>
    <td>180Degrees</td>
    <td>-2,75Diopter</td>
    <td>1</td>
    <td>1</td>
   </tr>
```

```
    <tr>
     <td>2</td>
     <td>-2,50Diopter</td>
     <td>0,50Diopter</td>
     <td>180Degrees</td>
     <td>-2,75Diopter</td>
     <td>1</td>
     <td>1</td>
    </tr>
    <tr>
     <td>3</td>
     <td>-2,50Diopter</td>
     <td>0,50Diopter</td>
     <td>180Degrees</td>
     <td>-2,75Diopter</td>
     <td>1</td>
     <td>1</td>
    </tr>
    <tr>
     <td>4</td>
     <td>-2,50Diopter</td>
     <td>0,50Diopter</td>
     <td>180Degrees</td>
     <td>-2,75Diopter</td>
     <td>1</td>
     <td>1</td>
    </tr>
    <tr>
     <td>5</td>
     <td>-0,50Diopter</td>
     <td>0,50Diopter</td>
     <td>90Degrees</td>
     <td>-2,75Diopter</td>
     <td>1</td>
     <td>1</td>
    </tr>
    <tr>
     <td>6</td>
     <td>+0,50Diopter</td>
     <td>1,50Diopter</td>
     <td>180Degrees</td>
     <td>-2,75Diopter</td>
     <td>1</td>
     <td>1</td>
    </tr>
    <tr>
     <td>Median</td>
     <td>-2,50Diopter</td>
     <td>0,50Diopter</td>
     <td>180Degrees</td>
     <td>-2,75Diopter</td>
    </tr>
   </tbody>
  </table>
  <br></br>
   PD
  <br></br>
  <table>
```

```
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       <tr>
        <td>REFWorkingDistance</td><td>40cm</td>
       </tr>
       <tr>
        <td>REFPD</td><td>62,5mm</td>
       </tr>
       <tr>
        <td>REFNear</td><td>60,5mm</td>
       </tr>
      </tbody>
     </table>
     <br></br>
    </html>
   </text>
   <entry typeCode="COMP">
    <observation classCode="OBS" moodCode="EVN">
     <code code="95289-5" displayName="REFVD" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
     <effectiveTime value="20121011112928"/>
     <value xsi:type="PQ" value="12,00" unit="mm"/>
    </observation>
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    <observation classCode="OBS" moodCode="EVN">
     <code code="95290-3" displayName="REFDiopterStep" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
     <effectiveTime value="20121011112928"/>
     <value xsi:type="CD" code ="LA30931-2" displayName="0,25 diop"
odeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    </observation>
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   <entry typeCode="COMP">
    <observation classCode="OBS" moodCode="EVN">
     <code code="95291-1" displayName="REFAxisStep" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
     <effectiveTime value="20121011112928"/>
     <value xsi:type="CD" code ="LA31064-1" displayName="5 degrees"
odeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    </observation>
   </entry>
   <entry typeCode="COMP">
    <observation classCode="OBS" moodCode="EVN">
     <code code="95292-9" displayName="REFCylinderMode" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
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     <value xsi:type="CD" code ="LA11840-8" displayName="Mixed"
odeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    </observation>
   </entry>
   <entry typeCode="COMP">
    <observation classCode="OBS" moodCode="EVN">
     <code code="28687-2" displayName="REFSphereR" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
     <effectiveTime value="20121011112928"/>
     <value xsi:type="PQ" nullFlavor="NA"/>
     <entryRelationship typeCode="COMP">
     <sequenceNumber value="1"/>
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codeSystemName="LOINC"/>
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   <sequenceNumber value="2"/>
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codeSystemName="LOINC"/>
    <value xsi:type="PQ" nullFlavor="NA"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
  <effectiveTime value="20121011112928"/>
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   <observation classCode="OBS" moodCode="EVN">
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
    <value xsi:type="PQ" nullFlavor="NA"/>
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codeSystemName="LOINC"/>
    <value xsi:type="PQ" value="0,50" unit="Dioptor"/>
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  </entryRelationship>
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<entry typeCode="COMP">
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codeSystemName="LOINC"/>
        <effectiveTime value="20121011112928"/>
        <value xsi:type="PQ" nullFlavor="NA"/>
        <entryRelationship typeCode="COMP">
          <sequenceNumber value="1"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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    <entry typeCode="COMP">
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codeSystemName="LOINC"/>
        <effectiveTime value="20121011112928"/>
        <value xsi:type="PQ" nullFlavor="NA"/>
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          <sequenceNumber value="1"/>
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codeSystemName="LOINC"/>
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        <entryRelationship typeCode="COMP">
          <sequenceNumber value="2"/>
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codeSystemName="LOINC"/>
            <value xsi:type="PQ" nullFlavor="NA"/>
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        </entryRelationship>
        <entryRelationship typeCode="COMP">
          <sequenceNumber value="3"/>
          <observation classCode="OBS" moodCode="EVN">
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codeSystemName="LOINC"/>
            <value xsi:type="PQ" value="-2,75" unit="Dioptor"/>
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 </entry>
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codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
  <effectiveTime value="20121011112928"/>
  <value xsi:type="CD" nullFlavor="NA"/>
  <entryRelationship typeCode="COMP">
   <sequenceNumber value="1"/>
   <observation classCode="OBS" moodCode="EVN">
    <code code="95293-7" displayName="DeviceMasurementMode"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="CD" code="LA31023-7"  displayName="CAT (Cataract)"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
   </observation>
  </entryRelationship>
  <entryRelationship typeCode="COMP">
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    <value xsi:type="CD" nullFlavor="NA"/>
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   <observation classCode="OBS" moodCode="EVN">
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codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="CD" code="LA31023-7" displayName="CAT (Cataract)"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
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  <observation classCode="OBS" moodCode="EVN">
  <code code="95293-7" displayName="DeviceMasurementMode"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
  <effectiveTime value="20121011112928"/>
  <value xsi:type="CD" nullFlavor="NA"/>
  <entryRelationship typeCode="COMP">
   <sequenceNumber value="1"/>
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codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
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codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" />
   </observation>
  </entryRelationship>
  <entryRelationship typeCode="COMP">
   <sequenceNumber value="2"/>
   <observation classCode="OBS" moodCode="EVN">
    <code code="95293-7" displayName="DeviceMasurementMode"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
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    <value xsi:type="CD" nullFlavor="NA"/>
   </observation>
  </entryRelationship>
  <entryRelationship typeCode="COMP">
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codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="CD" code="LA31024-5" displayName="IOL (Intraocular Lens)"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" />
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codeSystemName="LOINC"/>
  <effectiveTime value="20121011112928"/>
  <value xsi:type="PQ" value="-2,50" Unit="Dioptor"/>
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   <observation classCode="OBS" moodCode="EVN">
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codeSystemName="LOINC"/>
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  </entryRelationship>
  <entryRelationship typeCode="COMP">
   <sequenceNumber value="2"/>
   <observation classCode="OBS" moodCode="EVN">
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codeSystemName="LOINC"/>
    <value xsi:type="PQ" value="-2,50" unit="Dioptor"/>
   </observation>
  </entryRelationship>
  <entryRelationship typeCode="COMP">
   <sequenceNumber value="3"/>
   <observation classCode="OBS" moodCode="EVN">
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codeSystemName="LOINC"/>
    <value xsi:type="PQ" value="-2,50" unit="Dioptor"/>
   </observation>
  </entryRelationship>
  <entryRelationship typeCode="COMP">
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codeSystemName="LOINC"/>
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   </observation>
  </entryRelationship>
  <entryRelationship typeCode="COMP">
   <sequenceNumber value="5"/>
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codeSystemName="LOINC"/>
    <value xsi:type="PQ" value="-0,50" unit="Dioptor"/>
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codeSystemName="LOINC"/>
        <value xsi:type="PQ" value="+0,50" unit="Dioptor"/>
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      </entryRelationship>
     </observation>
   </entry>
   <entry typeCode="COMP">
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codeSystemName="LOINC"/>
     <effectiveTime value="20121011112928"/>
     <value xsi:type="PQ" value="0,50" Unit="Dioptor"/>
     <entryRelationship typeCode="COMP">
      <sequenceNumber value="1"/>
      <observation classCode="OBS" moodCode="EVN">
       <code code="28692-2" displayName="REFCylinderL" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
       <value xsi:type="PQ" value="0,50" unit="Dioptor"/>
      </observation>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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      </observation>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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      </observation>
     </entryRelationship>
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codeSystemName="LOINC"/>
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      </entry>
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codeSystemName="LOINC"/>
        <effectiveTime value="20121011112928"/>
        <value xsi:type="PQ" value="180" Unit="Dioptor"/>
        <entryRelationship typeCode="COMP">
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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        <entryRelationship typeCode="COMP">
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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      </observation>
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  </entry>
  <entry typeCode="COMP">
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codeSystemName="LOINC"/>
    <effectiveTime value="20121011112928"/>
    <value xsi:type="PQ" value="-2,75" Unit="Dioptor"/>
    <entryRelationship typeCode="COMP">
     <sequenceNumber value="1"/>
     <observation classCode="OBS" moodCode="EVN">
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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   <effectiveTime value="20121011112928"/>
  <value xsi:type="CD" nullFlavor="NA"/>
   <entryRelationship typeCode="COMP">
    <sequenceNumber value="1"/>
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codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
     <value xsi:type="CD" code="LA31023-7"  displayName="CAT (Cataract)"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
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codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
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   </entryRelationship>
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67

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codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" />
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==

D.4 KM (Keratometer)

==

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<font color="#ffffff">AxisStep</font>
</td>
<td  width="80">5°</td>
  </tr>
  <tr align="center">
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    <font color="#ffffff">CylinderMode</font>
   </td>
   <td width="80">-</td>
  </tr>
  <tr align="center">
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 </tr>
 </table>
 <br/>
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   <td colspan="3" width="80">
    <font   color="#ffffff">R1</font>
   </td>
   <td colspan="3" width="80">
    <font color="#ffffff">R2</font>
   </td>
   <td colspan="2" width="80">
    <font color="#ffffff">Average</font>
   </td>
   <td colspan="2" width="80">
    <font  color="#ffffff">Cylinder</font>
   </td>
  </tr>
  <tr align="center" bgcolor="#FFA500">
  <td width="80">
    <font color="#ffffff">Radius</font>
   </td>
   <td width="80">
    <font color="#ffffff">Power</font>
   </td>
   <td width="80">
    <font color="#ffffff">Axis</font>
   </td>
   <td width="80">
    <font color="#ffffff">Radius</font>
   </td>
   <td width="80">
    <font color="#ffffff">Power</font>
```

```
  </td>
  <td width="80">
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  </td>
  <td width="80">
   <font color="#ffffff">Radius</font>
  </td>
  <td width="80">
   <font color="#ffffff">Power</font>
  </td>
  <td width="80">
   <font color="#ffffff">Cylinder</font>
  </td>
  <td width="80">
   <font color="#ffffff">Axis</font>
  </td>
 </tr>
 <tr align="center">
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  <td>8,05mm</td>
  <td>45,00D</td>
  <td>180°</td>
  <td>7,65mm</td>
  <td>44,95D</td>
  <td>68°</td>
  <td>7,85mm</td>
  <td>43,35D</td>
  <td>-2,50D</td>
  <td>150°</td>
 </tr>
 <tr align="center">
  <td>2</td>
  <td/>
  <td/>
  <td/>
  <td/>
  <td/>
  <td/>
  <td/>
  <td/>
  <td/>
  <td/>
 </tr>
 <tr align="center">
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  <td>8,05mm</td>
  <td>45,00D</td>
  <td>180°</td>
  <td>7,65mm</td>
  <td>44,95D</td>
  <td>68°</td>
  <td>7,85mm</td>
  <td>43,35D</td>
  <td>-2,50D</td>
  <td>150°</td>
 </tr>
 <tr align="center" bgcolor="#ff9966">
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```

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    <td/>
    <td/>
    <td/>
    <td/>
    <td/>
    <td/>
    <td/>
    <td/>
    <td/>
    <td/>
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<strong>Left</strong>
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    <font color="#ffffff">Average</font>
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   <td width="80">
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    <font color="#ffffff">Axis</font>
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   <td width="80">
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```

```
   <font color="#ffffff">Cylinder</font>
  </td>
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 </tr>
 <tr align="center">
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  <td>7,54mm</td>
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  <td>-2,75D</td>
  <td>133°</td>
 </tr>
 <tr align="center">
  <td>2</td>
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  <td>42,00D</td>
  <td>133°</td>
  <td>7,54mm</td>
  <td>44,75D</td>
  <td>43°</td>
  <td>7,65mm</td>
  <td>43,25D</td>
  <td>-2,75D</td>
  <td>133°</td>
 </tr>
 <tr align="center">
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  <td>43,75D</td>
  <td>180°</td>
  <td>8,25mm</td>
  <td>44,80D</td>
  <td>90°</td>
  <td>7,65mm</td>
  <td>43,50D</td>
  <td>+2,25D</td>
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 </tr>
 <tr align="center">
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  <td>8,50mm</td>
  <td>42,00D</td>
  <td>133°</td>
  <td>8,54mm</td>
  <td>42,35D</td>
  <td>180°</td>
  <td>7,65mm</td>
  <td>43,25D</td>
  <td>-0,25D</td>
  <td>133°</td>
 </tr>
```

```
  <tr align="center">
   <td>5</td>
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   <td>42,00D</td>
   <td>133°</td>
   <td>7,54mm</td>
   <td>44,75D</td>
   <td>43°</td>
   <td>7,65mm</td>
   <td>43,25D</td>
   <td>-2,75D</td>
   <td>133°</td>
  </tr>
  <tr align="center" bgcolor="#ff9966">
   <td>Median</td>
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   <td>42,50D</td>
   <td>180°</td>
   <td>7,54mm</td>
   <td>44,75D</td>
   <td>43°</td>
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   <td>43,25D</td>
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 </table>
 <br/>
 <strong>Pupil</strong>
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   <td width="80" bgcolor="#ff9966">3,5mm</td>
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 <br/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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  <entry typeCode="COMP">
   <observation classCode="OBS" moodCode="EVN">
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codeSystemName="LOINC"/>
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   </entryRelationship>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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   <value xsi:type="PQ" nullFlavor="NA"/>
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codeSystemName="LOINC"/>
     <value xsi:type="PQ" value="45,00" unit="Dioptor"/>
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    <observation classCode="OBS" moodCode="EVN">
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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            <sequenceNumber value="1"/>
            <observation classCode="OBS" moodCode="EVN">
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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   <value xsi:type="PQ" nullFlavor="NA"/>
   <entryRelationship typeCode="COMP">
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
      <value xsi:type="PQ" value="-2,50" unit="Dioptor"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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    <entryRelationship typeCode="COMP">
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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   <entryRelationship typeCode="COMP">
    <sequenceNumber value="1"/>
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codeSystemName="LOINC"/>
     <value xsi:type="PQ" value="42,00" unit="Dioptor"/>
    </observation>
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   <entryRelationship typeCode="COMP">
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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     <value xsi:type="PQ" value="42,00" unit="Dioptor"/>
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codeSystemName="LOINC"/>
           <value xsi:type="PQ" value="42,00" unit="Dioptor"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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  </entry>
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codeSystemName="LOINC"/>
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    <entryRelationship typeCode="COMP">
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codeSystemName="LOINC"/>
      <value xsi:type="PQ" value="44,75" unit="Dioptor"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
     <effectiveTime value="20121011112928"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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    <entryRelationship typeCode="COMP">
     <sequenceNumber value="4"/>
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codeSystemName="LOINC"/>
      <value xsi:type="PQ" value="180" unit="Degrees"/>
     </observation>
    </entryRelationship>
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     <sequenceNumber value="5"/>
     <observation classCode="OBS" moodCode="EVN">
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codeSystemName="LOINC"/>
      <value xsi:type="PQ" value="43" unit="Degrees"/>
     </observation>
    </entryRelationship>
   </observation>
  </entry>
  <entry typeCode="COMP">
   <observation classCode="OBS" moodCode="EVN">
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codeSystemName="LOINC"/>
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    <value xsi:type="PQ" value="7,65" unit="mm"/>
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     <sequenceNumber value="1"/>
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codeSystemName="LOINC"/>
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     </observation>
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     <sequenceNumber value="2"/>
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codeSystemName="LOINC"/>
      <value xsi:type="PQ" value="7,65" unit="mm"/>
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     <sequenceNumber value="3"/>
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codeSystemName="LOINC"/>
      <value xsi:type="PQ" value="7,65" unit="mm"/>
     </observation>
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    <entryRelationship typeCode="COMP">
     <sequenceNumber value="4"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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     </entryRelationship>
    </observation>
   </entry>
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codeSystemName="LOINC"/>
   <effectiveTime value="20121011112928"/>
   <value xsi:type="PQ" value="43,25" unit="Dioptor"/>
   <entryRelationship typeCode="COMP">
    <sequenceNumber value="1"/>
    <observation classCode="OBS" moodCode="EVN">
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codeSystemName="LOINC"/>
     <value xsi:type="PQ" value="43,25" unit="Dioptor"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
     <value xsi:type="PQ" value="43,50" unit="Dioptor"/>
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   <entryRelationship typeCode="COMP">
    <sequenceNumber value="4"/>
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codeSystemName="LOINC"/>
     <value xsi:type="PQ" value="43,25" unit="Dioptor"/>
    </observation>
   </entryRelationship>
   <entryRelationship typeCode="COMP">
    <sequenceNumber value="5"/>
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codeSystemName="LOINC"/>
      <value xsi:type="PQ" value="43,25" unit="Dioptor"/>
     </observation>
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  </entry>
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   <observation classCode="OBS" moodCode="EVN">
   <code code="95311-7" displayName="KMPowerCylL" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
   <effectiveTime value="20121011112928"/>
   <value xsi:type="PQ" value="-2,75" unit="Dioptor"/>
   <entryRelationship typeCode="COMP">
    <sequenceNumber value="1"/>
    <observation classCode="OBS" moodCode="EVN">
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codeSystemName="LOINC"/>
     <value xsi:type="PQ" value="-2,75" unit="Dioptor"/>
    </observation>
   </entryRelationship>
   <entryRelationship typeCode="COMP">
    <sequenceNumber value="2"/>
    <observation classCode="OBS" moodCode="EVN">
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codeSystemName="LOINC"/>
     <value xsi:type="PQ" value="-2,75" unit="Dioptor"/>
    </observation>
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   <entryRelationship typeCode="COMP">
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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    </observation>
   </entryRelationship>
  </observation>
 </entry>
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  <observation classCode="OBS" moodCode="EVN">
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codeSystemName="LOINC"/>
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<effectiveTime value="20121011112928"/>
   <value xsi:type="PQ" value="133" unit="Degrees"/>
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    <observation classCode="OBS" moodCode="EVN">
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codeSystemName="LOINC"/>
     <value xsi:type="PQ" value="133" unit="Degrees"/>
    </observation>
   </entryRelationship>
   <entryRelationship typeCode="COMP">
    <sequenceNumber value="2"/>
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codeSystemName="LOINC"/>
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    </observation>
   </entryRelationship>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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    </observation>
   </entryRelationship>
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codeSystemName="LOINC"/>
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  </observation>
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codeSystemName="LOINC"/>
<effectiveTime value="20121011112928"/>
   <value xsi:type="PQ" value="3,5" unit="mm"/>
  </observation>
 </entry>
 <entry typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
   <code code="95315-8" displayName="KMPupilSizeOnL" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
<effectiveTime value="20121011112928"/>
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```

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```
   </observation>
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  <observation classCode="OBS" moodCode="EVN">
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codeSystemName="LOINC"/>
   <value xsi:type="PQ" value="2,5" unit="mm"/>
  </observation>
 </entry>
 <entry typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
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codeSystemName="LOINC"/>
<effectiveTime value="20121011112928"/>
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  </observation>
 </entry>
</section>
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===

D.5 TM (Tonometer)

===

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  <section>
   <templateId root="2.16.840.1.113883.2.2.1.5.43"/>
   <code displayName="TM" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
code="79896-7"/>
   <title>TM</title>
   <text>
  <html>
   <body>
 <br/>
 <font size="5">Data and Average</font>
 <br/>
 <strong>right</strong>
 <table border="1" Cellspacing="0">
  <tr align="center" bgcolor="mediumseagreen">
   <td width="80">
    <font color="#ffffff">No.</font>
   </td>
   <td width="120">
    <font color="#ffffff">IOP[mmHg]</font>
   </td>
   <td width="120">
    <font color="#ffffff">IOP[Pa]</font>
   </td>
  </tr>
  <tr align="center">
   <td>1</td>
   <td>24,0[mmHg]</td>
   <td>3,2[kPa]</td>
   <td/>
  </tr>
  <tr align="center">
   <td>2</td>
   <td>21,0[mmHg]</td>
   <td>2,8[kPa]</td>
```

```
  <td>*</td>
 </tr>
 <tr align="center">
  <td>3</td>
  <td>22,0[mmHg]</td>
  <td>2,9[kPa]</td>
  <td/>
 </tr>
 <tr align="center" bgcolor="#ff9966">
  <td>Average</td>
  <td>22,3[mmHg]</td>
  <td>2,97[kPa]</td>
  <td/>
 </tr>
</table>
<br/>
<strong>left</strong>
<table border="1" Cellspacing="0">
 <tr align="center" bgcolor="mediumseagreen">
  <td width="80">
   <font color="#ffffff">No.</font>
  </td>
  <td width="120">
   <font color="#ffffff">IOP[mmHg]</font>
  </td>
  <td width="120">
   <font color="#ffffff">IOP[Pa]</font>
  </td>
 </tr>
 <tr align="center">
  <td>1</td>
  <td>24,0[mmHg]</td>
  <td>3,2[kPa]</td>
  <td>*</td>
 </tr>
 <tr align="center">
  <td>2</td>
  <td>21,0[mmHg]</td>
  <td>2,8[kPa]</td>
  <td/>
 </tr>
 <tr align="center">
  <td>3</td>
  <td>22,0[mmHg]</td>
  <td>2,9[kPa]</td>
  <td/>
 </tr>
 <tr align="center">
  <td>4</td>
  <td>24,0[mmHg]</td>
  <td>3,2[kPa]</td>
  <td/>
 </tr>
 <tr align="center">
  <td>5</td>
  <td>21,0[mmHg]</td>
  <td>2,8[kPa]</td>
  <td>*</td>
```

```
    </tr>
    <tr align="center">
     <td>6</td>
     <td>22,0[mmHg]</td>
     <td>2,9[kPa]</td>
     <td>*</td>
    </tr>
    <tr align="center">
     <td>7</td>
     <td>24,0[mmHg]</td>
     <td>3,2[kPa]</td>
     <td/>
    </tr>
    <tr align="center">
     <td>8</td>
     <td>21,0[mmHg]</td>
     <td>2,8[kPa]</td>
     <td>*</td>
    </tr>
    <tr align="center">
     <td>9</td>
     <td>22,0[mmHg]</td>
     <td>2,9[kPa]</td>
     <td>*</td>
    </tr>
    <tr align="center">
     <td>10</td>
     <td>24,0[mmHg]</td>
     <td>3,2[kPa]</td>
     <td>*</td>
    </tr>
    <tr align="center" bgcolor="#ff9966">
     <td>Average</td>
     <td>22,5[mmHg]</td>
     <td>2,99[kPa]</td>
     <td/>
    </tr>
   </table>
   <br/>
   <font size="5">CorrectedIOP</font>
   <br/>
   <strong>right</strong>
   <table border="1" Cellspacing="0">
    <tr align="center">
     <td bgcolor="mediumseagreen" width="80">
      <font color="#ffffff">Param1</font>
     </td>
     <td width="80">0,554[mm]</td>
    </tr>
    <tr align="center">
     <td bgcolor="mediumseagreen" width="80">
      <font color="#ffffff">Param2</font>
     </td>
     <td width="80">0,0450</td>
    </tr>
    <tr align="center">
     <td bgcolor="mediumseagreen" width="80">
      <font color="#ffffff">CCT</font>
```

```
   </td>
   <td width="80">0,588[mm]</td>
  </tr>
 </table>
 <br/>
 <table border="1" Cellspacing="0">
  <tr align="center" bgcolor="mediumseagreen">
   <td width="80"/>
   <td width="160">
    <font color="#ffffff">IOP[mmHg]</font>
   </td>
   <td width="160">
    <font color="#ffffff">IOP[Pa]</font>
   </td>
  </tr>
  <tr align="center">
   <td bgcolor="mediumseagreen">
    <font color="#ffffff">Measured</font>
   </td>
   <td>22,3[mmHg]</td>
   <td>2,97[kPa]</td>
  </tr>
  <tr align="center" bgcolor="#ff9966">
   <td bgcolor="#ff9966">
    <font color="#000000">Corrected</font>
   </td>
   <td>20,8[mmHg]</td>
   <td>2,77[kPa]</td>
  </tr>
 </table>
 <br/>
 <strong>left</strong>
 <table border="1" Cellspacing="0">
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    <font color="#ffffff">Param1</font>
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   <td width="80">0,554[mm]</td>
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  <tr align="center">
   <td bgcolor="mediumseagreen" width="80">
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   </td>
   <td width="80">0,0450</td>
  </tr>
  <tr align="center">
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    <font color="#ffffff">CCT</font>
   </td>
   <td width="80">0,588[mm]</td>
  </tr>
 </table>
 <br/>
 <table border="1" Cellspacing="0">
  <tr align="center" bgcolor="mediumseagreen">
   <td width="80"/>
   <td width="160">
    <font color="#ffffff">IOP[mmHg]</font>
```

```
      </td>
      <td width="160">
        <font color="#ffffff">IOP[Pa]</font>
      </td>
    </tr>
    <tr align="center">
      <td bgcolor="mediumseagreen">
        <font color="#ffffff">Measured</font>
      </td>
      <td>22,5[mmHg]</td>
      <td>2,99[kPa]</td>
    </tr>
    <tr align="center" bgcolor="#ff9966">
      <td bgcolor="#ff9966">
        <font color="#000000">Corrected</font>
      </td>
      <td>21,0[mmHg]</td>
      <td>2,76[kPa]</td>
    </tr>
  </table>
  <br/>
  <br/>
  <font size="5">Common</font>
  <table>
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      <tr align="center">
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      <font color="#ffffff">Company</font>
        </td>
        <td width="80">ABCD</td>
      </tr>
      <tr align="center">
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      <font color="#ffffff">ModelName</font>
        </td>
        <td width="80">ABC-123</td>
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      <tr align="center">
        <td bgcolor="#00CED1" width="150">
      <font color="#ffffff">MachineNo</font>
        </td>
        <td width="80">1234</td>
      </tr>
      <tr align="center">
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      <font color="#ffffff">ROMVersion</font>
        </td>
        <td width="80">1,0</td>
      </tr>
      <tr align="center">
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        </td>
        <td width="80">1,4</td>
      </tr>
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 </td>
 <td width="80">2008-09-01</td>
</tr>
<tr align="center">
 <td bgcolor="#00CED1" width="150">
<font color="#ffffff">Time</font>
 </td>
 <td width="80">19:36:28</td>
</tr>
 </table>
</td>
<td>
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 <td bgcolor="#008B8B" width="180">
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 <td width="100">123456</td>
</tr>
<tr align="center">
 <td bgcolor="#008B8B" width="180">
<font color="#ffffff">PatientID</font>
 </td>
 <td width="100">ABCDEFG</td>
</tr>
<tr align="center">
 <td bgcolor="#008B8B" width="180">
<font color="#ffffff">FirstName</font>
 </td>
 <td width="100">TAROU</td>
</tr>
<tr align="center">
 <td bgcolor="#008B8B" width="180">
<font color="#ffffff">MiddleName</font>
 </td>
 <td width="100"/>
</tr>
<tr align="center">
 <td bgcolor="#008B8B" width="180">
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 <td width="100">TANAKA</td>
</tr>
<tr align="center">
 <td bgcolor="#008B8B" width="180">
<font color="#ffffff">Sex</font>
 </td>
 <td width="100">M</td>
</tr>
<tr align="center">
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 </td>
 <td width="100">18</td>
</tr>
<tr align="center">
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```
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     <td bgcolor="#008B8B" width="180">
    <font color="#ffffff">NameJ1</font>
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     <td width="100"/>
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    <tr align="center">
     <td bgcolor="#008B8B" width="180">
    <font color="#ffffff">NameJ2</font>
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     <td width="100"/>
    </tr>
     </table>
    </td>
    <td>
     <table border="1" Cellspacing="0">
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     <td bgcolor="#5F9EA0" width="150">
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     </td>
     <td width="80">123456</td>
    </tr>
    <tr align="center">
     <td bgcolor="#5F9EA0" width="150">
    <font color="#ffffff">OperatorID</font>
     </td>
     <td width="80">ABCDEFG</td>
    </tr>
     </table>
    </td>
   </tr>
  </table>
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  <observation classCode="OBS" moodCode="EVN">
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codeSystemName="LOINC"/>
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  <sequenceNumber value="1"/>
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codeSystemName="LOINC"/>
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```

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codeSystemName="LOINC"/>
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   <code code="79892-6" displayName="TMIOP_mmHgR" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
   <value xsi:type="PQ" value="22,0" unit="mmHg"/>
  </observation>
  </entryRelationship>
  </observation>
  </entry>
  <entry typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
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codeSystemName="LOINC"/>
<effectiveTime value="20121011112928"/>
   <value xsi:type="PQ" value="2,97" unit="kPa"/>
   <entryRelationship typeCode="COMP">
  <sequenceNumber value="1"/>
  <observation classCode="OBS" moodCode="EVN">
   <code code="28987-6" displayName="TMIOP_kPaR" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
   <value xsi:type="PQ" value="3,2" unit="kPa"/>
  </observation>
  </entryRelationship>
  <entryRelationship typeCode="COMP">
  <sequenceNumber value="2"/>
  <observation classCode="OBS" moodCode="EVN">
   <code code="28987-6" displayName="TMIOP_kPaR" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
   <value xsi:type="PQ" value="2,8" unit="kPa"/>
  </observation>
  </entryRelationship>
  <entryRelationship typeCode="COMP">
  <sequenceNumber value="3"/>
  <observation classCode="OBS" moodCode="EVN">
   <code code="28987-6" displayName="TMIOP_kPaR" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
   <value xsi:type="PQ" value="2,9" unit="kPa"/>
  </observation>
  </entryRelationship>
  </observation>
  </entry>
  <entry typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
   <code code="79893-4" displayName="TMIOP_mmHgL" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
<effectiveTime value="20121011112928"/>
   <value xsi:type="PQ" value="22,5" unit="mmHg"/>
   <entryRelationship typeCode="COMP">
  <sequenceNumber value="1"/>
  <observation classCode="OBS" moodCode="EVN">
   <code code="79893-4" displayName="TMIOP_mmHgL" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
   <value xsi:type="PQ" value="24,0" unit="mmHg"/>
```

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```
</observation>
  </entryRelationship>
  <entryRelationship typeCode="COMP">
<sequenceNumber value="2"/>
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  <code code="79893-4" displayName="TMIOP_mmHgL" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
  <value xsi:type="PQ" value="21,0" unit="mmHg"/>
  </observation>
  </entryRelationship>
  <entryRelationship typeCode="COMP">
<sequenceNumber value="3"/>
<observation classCode="OBS" moodCode="EVN">
  <code code="79893-4" displayName="TMIOP_mmHgL" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
  <value xsi:type="PQ" value="22,0" unit="mmHg"/>
  </observation>
  </entryRelationship>
  <entryRelationship typeCode="COMP">
<sequenceNumber value="4"/>
<observation classCode="OBS" moodCode="EVN">
  <code code="79893-4" displayName="TMIOP_mmHgL" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
  <value xsi:type="PQ" value="24,0" unit="mmHg"/>
  </observation>
  </entryRelationship>
  <entryRelationship typeCode="COMP">
<sequenceNumber value="5"/>
<observation classCode="OBS" moodCode="EVN">
  <code code="79893-4" displayName="TMIOP_mmHgL" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
  <value xsi:type="PQ" value="21,0" unit="mmHg"/>
  </observation>
  </entryRelationship>
  <entryRelationship typeCode="COMP">
<sequenceNumber value="6"/>
<observation classCode="OBS" moodCode="EVN">
  <code code="79893-4" displayName="TMIOP_mmHgL" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
  <value xsi:type="PQ" value="22,0" unit="mmHg"/>
  </observation>
  </entryRelationship>
  <entryRelationship typeCode="COMP">
<sequenceNumber value="7"/>
<observation classCode="OBS" moodCode="EVN">
  <code code="79893-4" displayName="TMIOP_mmHgL" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
  <value xsi:type="PQ" value="24,0" unit="mmHg"/>
  </observation>
  </entryRelationship>
  <entryRelationship typeCode="COMP">
<sequenceNumber value="8"/>
<observation classCode="OBS" moodCode="EVN">
  <code code="79893-4" displayName="TMIOP_mmHgL" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
  <value xsi:type="PQ" value="21,0" unit="mmHg"/>
  </observation>
  </entryRelationship>
```

```
    <entryRelationship typeCode="COMP">
  <sequenceNumber value="9"/>
  <observation classCode="OBS" moodCode="EVN">
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    <value xsi:type="PQ" value="22,0" unit="mmHg"/>
  </observation>
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  <sequenceNumber value="10"/>
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    <value xsi:type="PQ" value="24,0" unit="mmHg"/>
  </observation>
    </entryRelationship>
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  <observation classCode="OBS" moodCode="EVN">
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<effectiveTime value="20121011112928"/>
    <value xsi:type="PQ" value="2,99" unit="kPa"/>
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  <observation classCode="OBS" moodCode="EVN">
   <code code="79893-4" displayName="TMIOP_kPaL" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="PQ" value="3,2" unit="kPa"/>
  </observation>
    </entryRelationship>
    <entryRelationship typeCode="COMP">
  <sequenceNumber value="2"/>
  <observation classCode="OBS" moodCode="EVN">
   <code code="79893-4" displayName="TMIOP_kPaL" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="PQ" value="2,8" unit="kPa"/>
  </observation>
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    <entryRelationship typeCode="COMP">
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  <observation classCode="OBS" moodCode="EVN">
   <code code="79893-4" displayName="TMIOP_kPaL" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="PQ" value="2,9" unit="kPa"/>
  </observation>
    </entryRelationship>
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    <value xsi:type="PQ" value="3,2" unit="kPa"/>
  </observation>
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codeSystemName="LOINC"/>
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  </observation>
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   <entryRelationship typeCode="COMP">
  <sequenceNumber value="6"/>
  <observation classCode="OBS" moodCode="EVN">
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codeSystemName="LOINC"/>
   <value xsi:type="PQ" value="2,9" unit="kPa"/>
  </observation>
   </entryRelationship>
   <entryRelationship typeCode="COMP">
  <sequenceNumber value="7"/>
  <observation classCode="OBS" moodCode="EVN">
   <code code="79893-4" displayName="TMIOP_kPaL" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
   <value xsi:type="PQ" value="3,2" unit="kPa"/>
  </observation>
   </entryRelationship>
   <entryRelationship typeCode="COMP">
  <sequenceNumber value="8"/>
  <observation classCode="OBS" moodCode="EVN">
   <code code="79893-4" displayName="TMIOP_kPaL" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
   <value xsi:type="PQ" value="2,8" unit="kPa"/>
  </observation>
   </entryRelationship>
   <entryRelationship typeCode="COMP">
  <sequenceNumber value="9"/>
  <observation classCode="OBS" moodCode="EVN">
   <code code="79893-4" displayName="TMIOP_kPaL" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
   <value xsi:type="PQ" value="2,9" unit="kPa"/>
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codeSystemName="LOINC"/>
   <value xsi:type="PQ" value="3,2" unit="kPa"/>
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  </observation>
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codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
<effectiveTime value="20121011112928"/>
   <value xsi:type="PQ" value="0,554" unit="mm"/>
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  <observation classCode="OBS" moodCode="EVN">
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    <value xsi:type="PQ" value="0,0450"/>
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   <observation classCode="OBS" moodCode="EVN">
    <code code="79825-6" displayName="TMCorrectedIOP_CCTR" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
<effectiveTime value="20121011112928"/>
    <value xsi:type="PQ" value="0,588" unit="mm"/>
   </observation>
    </entry>
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   <observation classCode="OBS" moodCode="EVN">
    <code code="79892-6" displayName="TMMeasuredIOP_mmHgR"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
<effectiveTime value="20121011112928"/>
    <value xsi:type="PQ" value="22,3" unit="mmHg"/>
   </observation>
    </entry>
    <entry typeCode="COMP">
   <observation classCode="OBS" moodCode="EVN">
    <code code="79892-6" displayName="TMMeasuredIOP_kPaR" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
<effectiveTime value="20121011112928"/>
    <value xsi:type="PQ" value="2,97" unit="kPa"/>
   </observation>
    </entry>
    <entry typeCode="COMP">
   <observation classCode="OBS" moodCode="EVN">
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codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
<effectiveTime value="20121011112928"/>
    <value xsi:type="PQ" value="20,8" unit="mmHg"/>
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   <observation classCode="OBS" moodCode="EVN">
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codeSystemName="LOINC"/>
<effectiveTime value="20121011112928"/>
    <value xsi:type="PQ" value="2,77" unit="kPa"/>
   </observation>
    </entry>
    <entry typeCode="COMP">
   <observation classCode="OBS" moodCode="EVN">
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codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
<effectiveTime value="20121011112928"/>
    <value xsi:type="PQ" value="0,554" unit="mm"/>
   </observation>
    </entry>
    <entry typeCode="COMP">
   <observation classCode="OBS" moodCode="EVN">
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codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
```

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   <value xsi:type="PQ" value="0,0450"/>
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  <observation classCode="OBS" moodCode="EVN">
   <code code="79826-4" displayName="TMCorrectedIOP_CCTL" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
<effectiveTime value="20121011112928"/>
   <value xsi:type="PQ" value="0,588" unit="mm"/>
  </observation>
   </entry>
   <entry typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
   <code code="79893-4" displayName="TMMeasuredIOP_mmHgL"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
<effectiveTime value="20121011112928"/>
   <value xsi:type="PQ" value="22,5" unit="mmHg"/>
  </observation>
   </entry>
   <entry typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
   <code code="79893-4" displayName="TMMeasuredIOP_kPaL" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
<effectiveTime value="20121011112928"/>
   <value xsi:type="PQ" value="2,99" unit="kPa"/>
  </observation>
   </entry>
   <entry typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
   <code code="96092-2" displayName="TMCorrectedIOP_mmHgL"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
<effectiveTime value="20121011112928"/>
   <value xsi:type="PQ" value="21,0" unit="mmHg"/>
  </observation>
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   <code code="96092-2" displayName="TMCorrectedIOP_KPaR" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
<effectiveTime value="20121011112928"/>
   <value xsi:type="PQ" value="2,76" unit="kPa"/>
  </observation>
 </entry>
</section>
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==

D.6 LM (Lensmeter)

==

```
<section>
  <templateId root="2.16.840.1.113883.2.2.1.5.43"/>
  <code displayName="LM" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
code="95318-2"/>
  <title>LM Data</title>
  <text>
   <html xmlns="">
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 <td width="150">Progressive</td>
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  <font color="#ffffff">DiopterStep</font>
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 <td width="150">0,25D</td>
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 <tr align="center">
 <td bgcolor="mediumseagreen" width="190">
  <font color="#ffffff">AxisStep</font>
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 <td width="150">1°</td>
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 <tr align="center">
 <td bgcolor="mediumseagreen" width="190">
  <font color="#ffffff">CylinderMode</font>
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 <td width="150">mix</td>
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 <td bgcolor="mediumseagreen" width="190">
  <font color="#ffffff">PrismDiopterStep</font>
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 <td width="150">1°</td>
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 </td>
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 </tr>
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 <td width="150">add</td>
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```
  <font color="#ffffff">error</font>
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 <td>MEASUREMENT ERROR</td>
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  <font color="#ffffff">Cylinder</font>
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 <td width="100">
  <font color="#ffffff">Axis</font>
 </td>
 <td width="100">
  <font color="#ffffff">SE</font>
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 <td width="100">
  <font color="#ffffff">ADD</font>
 </td>
 <td width="100">
  <font color="#ffffff">ADD2</font>
 </td>
 <td width="100">
  <font color="#ffffff">NearSphere</font>
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 <td width="100">
  <font color="#ffffff">NearSphere2</font>
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  <font color="#ffffff">Prism</font>
 </td>
 <td width="100">
  <font color="#ffffff">PrismBase</font>
 </td>
 <td width="100">
  <font color="#ffffff">PrismX</font>
 </td>
 <td width="100">
  <font color="#ffffff">PrismY</font>
 </td>
 <td width="100">
  <font color="#ffffff">UVTransmittance</font>
 </td>
 </tr>
 <tr align="center">
 <td>-3,00D</td>
 <td>0,00D</td>
 <td>0°</td>
 <td/>
 <td>1,50D</td>
 <td/>
```

```
<td>-1,50D</td>
<td/>
<td>0,25Δ</td>
<td>102°</td>
<td>in0,00Δ</td>
<td>up0,25Δ</td>
<td>5%</td>
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 <td width="100">
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  <font color="#ffffff">ADD2</font>
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  <font color="#ffffff">NearSphere</font>
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 <td>-1,00D</td>
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```

```
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      <td>2,50Δ</td>
      <td>90°</td>
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     <td width="100">
       <font color="#ffffff">DistanceL</font>
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     </tr>
     <tr align="center" bgcolor="#FFA500">
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     </td>
     <td width="100">
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     <td width="100">
       <font color="#ffffff">NearL</font>
     </td>
     </tr>
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     <td>27,5mm</td>
     <td>27,0mm</td>
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    <br/>
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109

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   <effectiveTime value="20121011112928"/>
   <value xsi:type="CD" code="LA30899-1" displayName="Standard lens"
odeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
   <effectiveTime value="20121011112928"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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   <value xsi:type="PQ" nullFlavor="NA"/>
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codeSystemName="LOINC"/>
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  <observation classCode="OBS" moodCode="EVN">
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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    <value xsi:type="PQ" nullFlavor="NA"/>
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 </entry>
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  <observation classCode="OBS" moodCode="EVN">
    <code code="95335-6" displayName="LMPrismXoutS" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
    <effectiveTime value="20121011112928"/>
    <value xsi:type="PQ" nullFlavor="NA"/>
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 </entry>
 <entry typeCode="COMP" xmlns="">
  <observation classCode="OBS" moodCode="EVN">
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codeSystemName="LOINC"/>
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```xml
   </entry>
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  <observation classCode="OBS" moodCode="EVN">
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codeSystemName="LOINC"/>
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 </entry>
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  <observation classCode="OBS" moodCode="EVN">
   <code code="29134-4" displayName="LMCylinderR" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
   <effectiveTime value="20121011112928"/>
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codeSystemName="LOINC"/>
   <effectiveTime value="20121011112928"/>
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  <observation classCode="OBS" moodCode="EVN">
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codeSystemName="LOINC"/>
   <effectiveTime value="20121011112928"/>
   <value xsi:type="PQ" nullFlavor="NA"/>
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 </entry>
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  <observation classCode="OBS" moodCode="EVN">
   <code code="28810-0" displayName="LMADDR" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
   <effectiveTime value="20121011112928"/>
   <value xsi:type="PQ" value="1,50" unit="Dioptor"/>
  </observation>
 </entry>
 <entry typeCode="COMP" xmlns="">
  <observation classCode="OBS" moodCode="EVN">
   <code code="28811-8" displayName="LMADD2R" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
   <effectiveTime value="20121011112928"/>
   <value xsi:type="PQ" nullFlavor="NA"/>
  </observation>
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 <entry typeCode="COMP" xmlns="">
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```xml
  <observation classCode="OBS" moodCode="EVN">
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codeSystemName="LOINC"/>
   <effectiveTime value="20121011112928"/>
   <value xsi:type="PQ" value="-1,50" unit="Dioptor"/>
  </observation>
 </entry>
 <entry typeCode="COMP" xmlns="">
  <observation classCode="OBS" moodCode="EVN">
   <code code="28796-1" displayName="LMNearSphere2R" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
   <effectiveTime value="20121011112928"/>
   <value xsi:type="PQ" nullFlavor="NA"/>
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  <observation classCode="OBS" moodCode="EVN">
   <code code="95332-3" displayName="LMPrismR" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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   <code code="95328-1" displayName="LMSEL" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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  <observation classCode="OBS" moodCode="EVN">
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codeSystemName="LOINC"/>
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    <value xsi:type="PQ" nullFlavor="NA"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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   <code code="28788-8" displayName="LMPrismBaseL" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
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  <observation classCode="OBS" moodCode="EVN">
   <code code="95348-9" displayName="LMUVTransmittanceL" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
    <effectiveTime value="20121011112928"/>
    <value xsi:type="PQ" value="27,0" unit="mm"/>
   </observation>
  </entry>
</section>
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===

D.7 PHOR (Phoroptor)

Notice: SNOMED-CT® codes are referenced as examples of tags that indicate hierarchy. However, SNOMED-CT® codes are just samples and any other equivalent regional codes may be used.

===

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Header information
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width="250">Ophthalmology</td>
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 <br></br>
 ABCDEFG</td>
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width="250">TAROU:TANAKA</td>
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width="250">male</td>
 </TR>
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      <td bgcolor="#00CED1" width="250"><font color="#ffffff">BirthDay</font></td><td
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 <strong>Device information</strong>
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    <td bgcolor="#00CED1" width="250"><font color="#ffffff">EffectiveTime</font></td><td
width="250">2012/06/25</td>
 </TR>
 <TR align="center">
    <td bgcolor="#00CED1" width="250"><font color="#ffffff">Company</font></td><td
width="250">ABCD</td>
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 <TR align="center">
    <td bgcolor="#00CED1" width="250"><font color="#ffffff">CodeSystemVersion</font></td><td
width="250">1234</td>
 </TR>
 <TR align="center">
                    <td bgcolor="#00CED1" width="250"><font
color="#ffffff">ManufacturerModelName</font></td><td width="250">ABC-123</td>
 </TR>
 <TR align="center">
                    <td bgcolor="#00CED1" width="250"><font
color="#ffffff">SoftwarecodeSystemVersion</font></td><td width="250">1.0</td>
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 <TR align="center">
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```
    <td bgcolor="#00CED1" width="200"><font color="#ffffff">SoftwareName</font></td><td
width="250">1,2</td>
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 </table>
 <br></br>
 <strong>Operator</strong>
 <br></br>
   Operator code is
 <TR align="center">
 <td>123456</td>
 </TR>
 <TR align="center">
 <td>ABCDEFG</td>
 </TR>
<!--
 PHOR Data beggins
-->
 <br></br>
 <br></br>
 <strong>Examination data title is PHOR</strong>
 <br></br>
 <br></br>
 <table border="1" Cellspacing="0">
 <TR align="left">
 <td bgcolor="#FFCC99" width="600"><b>Refraction Test</b></td>
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<!--
 Refraction Test (1)
-->
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 <br></br>
 <strong>Refraction_Test_Type is Best Corrected</strong>
 <br></br>
 <table border="1" Cellspacing="0">
 <TR>
 <TD width="300">RefractionTest_CVD</TD><TD width="150">12,00</TD>
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 Refraction Test (1) - Far
-->
 <br></br>
 <strong>RefractionTest_Far_ViewingDistance = 500,0</strong>
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 <table border="1" Cellspacing="0">
 <TR>
 <TD width="300">RefractionTest_Far_SphereR</TD><TD width="150">-4,00</TD>
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 </table>
 <table border="1" Cellspacing="0">
 <TR>
 <TD width="300">RefractionTest_Far_CylinderR</TD><TD width="150">-2,50</TD>
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 </table>
 <table border="1" Cellspacing="0">
 <TR>
 <TD width="300">RefractionTest_Far_AxisR</TD><TD width="150">74</TD>
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</table>
<table border="1" Cellspacing="0">
<TR>
<TD width="300">RefractionTest_Far_PrismR</TD><TD width="150">0,80</TD>
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<table border="1" Cellspacing="0">
<TR>
<TD width="300">RefractionTest_Far_PrismBaseR</TD><TD width="150">270</TD>
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<table border="1" Cellspacing="0">
<TR>
<TD width="300">RefractionTest_Far_PrismX_OutR</TD><TD width="150">0,00</TD>
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</table>
<table border="1" Cellspacing="0">
<TR>
<TD width="300">RefractionTest_Far_PrismX_InR</TD><TD width="150">0,00</TD>
</TR>
</table>
<table border="1" Cellspacing="0">
<TR>
<TD width="300">RefractionTest_Far_PrismY_UpR</TD><TD width="150">0,00</TD>
</TR>
</table>
<table border="1" Cellspacing="0">
<TR>
<TD width="300">RefractionTest_Far_PrismY_DownR</TD><TD width="150">0,80</TD>
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<table border="1" Cellspacing="0">
<TR>
<TD width="300">RefractionTest_Far_SphereL</TD><TD width="150">2,75</TD>
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<table border="1" Cellspacing="0">
<TR>
<TD width="300">RefractionTest_Far_CylinderL</TD><TD width="150">-1,50</TD>
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<table border="1" Cellspacing="0">
<TR>
<TD width="300">RefractionTest_Far_AxisL</TD><TD width="150">164</TD>
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<table border="1" Cellspacing="0">
<TR>
<TD width="300">RefractionTest_Far_PrismL</TD><TD width="150">3,10</TD>
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</table><table border="1" Cellspacing="0">
<TR>
<TD width="300">RefractionTest_Far_PrismBaseL</TD><TD width="150">167</TD>
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<table border="1" Cellspacing="0">
<TR>
<TD width="300">RefractionTest_Far_PrismX_OutL</TD><TD width="150">0,00</TD>
```

121

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</TR>
</table>
<table border="1" Cellspacing="0">
<TR>
<TD width="300">RefractionTest_Far_PrismX_InL</TD><TD width="150">3,00</TD>
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</table>
<table border="1" Cellspacing="0">
<TR>
<TD width="300">RefractionTest_Far_PrismY_UpL</TD><TD width="150">0,70</TD>
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<table border="1" Cellspacing="0">
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<table border="1" Cellspacing="0">
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<TD width="300">RefractionTest_Far_VisualAcuity_R</TD><TD width="150">0,6</TD>
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<table border="1" Cellspacing="0">
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<TD width="300">RefractionTest_Far_VisualAcuity_L</TD><TD width="150">0,8</TD>
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<table border="1" Cellspacing="0">
<TR>
<TD width="300">RefractionTest_Far_VisualAcuity_B</TD><TD width="150">0,7</TD>
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<table border="1" Cellspacing="0">
<TR>
<TD width="300">RefractionTest_Far_PD_R</TD><TD width="150">33,00</TD>
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<table border="1" Cellspacing="0">
<TR>
<TD width="300">RefractionTest_Far_PD_L</TD><TD width="150">33,00</TD>
</TR>
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<table border="1" Cellspacing="0">
<TR>
<TD width="300">RefractionTest_Far_PD_B</TD><TD width="150">66,00</TD>
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<!--
Refraction Test (1) - Near
-->

<br></br>
<strong>RefractionTest_Near_ViewingDistance = 33,0</strong>
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<table border="1" Cellspacing="0">
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<TD width="300">RefractionTest_Near_SphereR</TD><TD width="150">-3,50</TD>
</TR>
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