

Digital Imaging and Communications in Medicine (DICOM)

Supplement xxx: Neurophysiology Waveforms

Prepared by: Working Group 32

DICOM Standards Committee, Working Group 6

1300 N. 17th Street, Suite 900

Rosslyn, Virginia 22209 USA

Status: Version 0, Apr 14, 2019

Developed pursuant to DICOM Work Item yyyy-nn-X

Table of Contents

Document History	5
Open Issues.....	5
Closed Issues	5
TODOs.....	6
Scope and Field of Application	7
Changes to NEMA Standards Publications PS 3.2 Digital Imaging and Communications in Medicine (DICOM) Part 2: Conformance	9
Changes to NEMA Standards Publications PS 3.3 Digital Imaging and Communications in Medicine (DICOM) Part 3: Information Object Definitions	9
A.34.11 Routine Scalp Electroencephalogram IOD	10
A.34.11.1 Routine Scalp EEG IOD Description.....	10
A.34.11.2 Routine Scalp EEG IOD Entity-Relationship Model.....	10
A34.11.3 Routine Scalp EEG IOD Module Table	10
A.34.11.4 Routine Scalp EEG IOD Constraints	11
A.34.11.4.1 Modality	11
A.34.11.4.2 Waveform Sequence.....	11
A.34.11.4.3 Number of Waveform Channels	11
A.34.11.4.4 Sampling Frequency	11
A.34.11.4.5 Channel Source and Channel Source Modifier.....	11
A.34.11.4.6 Waveform Sample Interpretation	11
A.34.11.4.7 Waveform Annotation Module	11
A.34.12 Intracranial EEG-Video-Monitoring IOD	11
A.34.12.1 Intracranial EEG-Video-Monitoring IOD Description.....	11
A.34.12.2 Intracranial EEG-Video-Monitoring EEG IOD Entity-Relationship Model	12
A34.12.3 Intracranial EEG-Video-Monitoring EEG IOD Module Table	12
A.34.12.4 Intracranial EEG-Video-Monitoring EEG IOD Constraints.....	12
A.34.12.4.1 Modality	12
A.34.12.4.2 Waveform Sequence.....	12
A.34.12.4.3 Number of Waveform Channels	12
A.34.12.4.4 Sampling Frequency	12
A.34.12.4.5 Channel Source and Channel Source Modifier.....	12
A.34.12.4.6 Waveform Sample Interpretation	13
A.34.12.4.7 Waveform Annotation Module	13
A.34.13 High-density Electroencephalogram IOD	13
A.34.13.1 High-density EEG IOD Description	13
A.34.13.2 High-density EEG IOD Entity-Relationship Model	13
A34.13.3 High-density EEG IOD Module Table	13
A.34.13.4 High-density EEG IOD Constraints.....	14
A.34.13.4.1 Modality	14
A.34.13.4.2 Waveform Sequence.....	14
A.34.13.4.3 Number of Waveform Channels	14
A.34.13.4.4 Sampling Frequency	14
A.34.13.4.5 Channel Source and Channel Source Modifier.....	14
A.34.13.4.6 Waveform Sample Interpretation	14
A.34.13.4.7 Waveform Annotation Module	14
A.34.14 Electromyogram IOD	14
A.34.14.1 Electromyogram IOD Description	14
A.34.14.2 Electromyogram IOD Entity-Relationship Model.....	15
A34.14.3 Electromyogram IOD Module Table.....	15
A.34.14.4 Electromyogram IOD Constraints	15

A.34.14.4.1 Modality	15
A.34.14.4.2 Waveform Sequence	15
A.34.14.4.3 Number of Waveform Channels	15
A.34.14.4.4 Sampling Frequency	15
A.34.14.4.5 Channel Source and Channel Source Modifier	15
A.34.14.4.6 Waveform Sample Interpretation	16
A.34.14.4.7 Waveform Annotation Module	16
A.34.15 Electrooculogram IOD	16
A.34.15.1 Electrooculogram IOD Description	16
A.34.15.2 Electrooculogram IOD Entity-Relationship Model	16
A.34.15.3 Electrooculogram IOD Module Table	16
A.34.15.4 Electrooculogram IOD Constraints	17
A.34.15.4.1 Modality	17
A.34.15.4.2 Waveform Sequence	17
A.34.15.4.3 Number of Waveform Channels	17
A.34.15.4.4 Sampling Frequency	17
A.34.15.4.5 Channel Source and Channel Source Modifier	17
A.34.15.4.6 Waveform Sample Interpretation	17
A.34.15.4.7 Waveform Annotation Module	17
Changes to NEMA Standards Publications PS 3.4 Digital Imaging and Communications in Medicine (DICOM) Part 4: Service Class Specifications	17
B.5 Standard SOP classes	18
Changes to NEMA Standards Publications PS 3.6 Digital Imaging and Communications in Medicine (DICOM) Part 6: Data Dictionary	18
Changes to NEMA Standards Publications PS 3.16 Digital Imaging and Communications in Medicine (DICOM) Part 16: Content Mapping Resource	19
CID 29 Acquisition Modality	19
CID 30xx EEG Leads	20
CID 30yy EMG Leads	22
CID 30zz EOG Leads	42
CID 34xx EEG Annotations	44
CID 34yy EMG Annotations	44
CID 34zz EOG Annotations	44
Changes to NEMA Standards Publications PS 3.17 Digital Imaging and Communications in Medicine (DICOM) Part 17: Explanatory Information	71
Annex xxxx Neruophysiology Waveforms	72
xxxx.1 Purpose of this Annex	72
xxxx. .. Electroencephalography	72
xxxx. .. Polysomnography	72
xxxx. .. Electromyography	73
xxxx. .. Electrooculography	73
xxxx. .. Mapping of miscellaneous of recorded signal data to DICOM waveform objects	73
xxxx. .. Example DICOM Routine Scalp EEG Waveform Object	75

Document History

2019/04/14	Version 0		Initial version, fragmentary
2019/05/15	Version 0		Results of WG-32 Meeting on 2019/04/18 added two EEG SOP Classes Invasive EEG-Video-Monitoring and High-density EEG added codes for locations near muscles (EMG) added codes for EOG electrode locations added screenshots of tables with codes for events and annotations
2019/05/20	Version 0		Results of WG 32 Meeting on 2019/05/2015: Routine EEG → Routine Scalp EEG Invasive → Intracranial Table of Open Issues is a Table of Todos Still TODO: • LTM should be a separate IOD (10/20, same recording properties) • Sleep EEG should be a separate IOD (10/20, same recording properties)

Open Issues

1.	

Closed Issues

1.	The DICOM Waveform IODs defined only allow 8 Bit sample values or 16 Bit sample values. In some cases a higher dynamic range is necessary to requested (24 Bit ADC). DICOM CP1819 [5] defines some new Value Representations and explicitly extends the list of supported Waveform Formats with 32 Bit and 64 Bit sample values. → 2019a PS3.3 C.10.9.1.5 (Waveform Bits Allocated 8Bit, 16 Bit, 32 Bit, 64 Bit)

TODOs

1.	Identify other required EEG SOP Classes besides the “clinic routine” / qualify the generic EEG SOP Class
	2019/04/18: Add some relevant EEG SOP Classes from the Clinical Use Cases Document to illustrate the differences
	2019/05/15: LTM and Sleep EEG should not be covered by Routine Scalp EEG IOD, but have separate IODs (both 10/20 electrodes and same recording properties)
2.	EEG: localization of (surface of the skull, scalp) EEG electrodes other than 10/10 or 10/20 (additional channels for arbitrary contacts; e.g. RSH)
3.	Localization of intracranial electrodes (subdural or intracerebral)
4.	Re-Using of Spatial Fiducials SOP Class to align positioning with CT and MR imaging.
5.	Recording of Body Position in Polysomnography
6.	Store the results of impedance testing
	Method 1: as Annotations assigned to dedicated channels
	Method 2: as channel properties (Channel Source Description) associated with defined points in time
	Method 3: as part of the Acquisition Context
7.	Synchronization Different objects (e.g. EEG and video, EEG and ECG objects) have to be synchronized. A description of the DICOM synchronization mechanisms can be found in PS3.3 (part 3 of the DICOM Standard) C.7.4.2 “Synchronization Module”. Different time protocols are supported: NTP, SNTP, PTP, IRIG, GPS.
	Maybe required: documentation of “estimated uncertainty” in sync (dependent on the used time protocol)
	Some use cases may require a periodical “resync” (e.g. in case of ext. stimulus) (different blocks of data <-> Multiplex Groups)
8.	Standardized annotations and events
	Events come from: • Machine • External • Software detecting something
	Annotations are applied by the tech. / by the doctor • during recording • after recording

	during review
	SOP Class to store Annotations after the recording (DICOM Structured Report)
	Separately or together with the review?
9.	External triggers, e.g. photic stimulation
	In some cases there are hundreds of events – maybe a separate channel would be useful to store them.
10.	Compression A process for RED compression of recorded waveforms has to be described, RED compression has to be added to the list of transfer syntaxes
	Other algorithms?
11.	Montages A “montage” is a calculative combination of the recording electrodes to improve the viewing result. The waveform data itself is always stored as recorded (e.g. with common reference or bipolar). A method for storing montages will be included. - to allow to “recreate the review” = use same viewing setting - esp. important for intracranial EEG
	Definition of standardized montages (Seeck et al.) referred by name?
	Methods to define own montages and store them with the recording.
12.	fMRI: synchronized imaging Requirements need to be defined

Scope and Field of Application

This Supplement introduces **a number of** Services Classes for Storage of Neurophysiology Waveforms by adding the related Neurophysiology IODs and the necessary Neurophysiology Waveform Context Groups.

Further explanations and information (which are required here?)

This Supplement

- Adds a SOP Class to store **routine (clinic)** electroencephalography (EEG) data recording the electrical activity of the brain collected on the skull surface using electrode positions of the international 10/10 or 10/20 localization scheme.
- Adds a SOP Class to store electromyography (EMG) data recording the electrical activity of skeletal muscles ...

- Adds a SOP Class to store electrooculography (EOG) data collected near the eyes recording eye movement.
- Adds a SOP Class to store generic neurophysiology signals (EEG only ? - needs further definition)
- <further SOP Classes to be added ...>
- Adds a Context Group comprising the EEG lead identifiers according the international 10/10 and 10/20 localization scheme.
- Adds a Context Group comprising defined terms for conditions present during the EEG recording (to be used in EEG Acquisition Context)
- Adds a Context Group with standardized terms for Events and Annotations (EEG related)
- Adds a Context Group comprising the EMG lead identifiers ...
- Adds a Context Group comprising defined terms for conditions present during the EMG recording (to be used in EMG Acquisition Context)
- Adds a Context Group with standardized terms for Events and Annotations (EMG related)
- Adds a Context Group comprising the EOG lead identifiers ...
- Adds a Context Group comprising defined terms for conditions present during the EOG recording (to be used in EOG Acquisition Context)
- Adds a Context Group with standardized terms for Events and Annotations (EOG related)
- <further to be added ... >
- Adds a transfer syntax for DICOM waveforms using RED compression

This supplement includes a number of Addenda to the following parts of the DICOM Standard:

PS 3.2	Conformance
PS 3.3	Information Object Definitions
PS 3.4	Service Class Specifications
PS 3.6	Data Dictionary
PS 3.16	Content Mapping Resource
PS 3.17	Explanatory Information

Changes to NEMA Standards Publications PS 3.2
Digital Imaging and Communications in Medicine (DICOM)
Part 2: Conformance

Add new SOP Classes ...

Changes to NEMA Standards Publications PS 3.3
Digital Imaging and Communications in Medicine (DICOM)
Part 3: Information Object Definitions

Add the synchronization Module to the Video Photographic Image IOD in PS3.3 Section A.32.7:

Table A.32.7-1. Video Photographic Image IOD Modules

IE	Module	Reference	Usage
Patient	Patient	C.7.1.1	M
	Clinical Trial Subject	C.7.1.3	U
Study	General Study	C.7.2.1	M
	Patient Study	C.7.2.2	U
	Clinical Trial Study	C.7.2.3	U
Series	General Series	C.7.3.1	M
	Clinical Trial Series	C.7.3.2	U
<u>Frame of Reference</u>	<u>Synchronization</u>	<u>C.7.4.2</u>	<u>U</u>
Equipment	General Equipment	C.7.5.1	M
Image	General Image	C.7.6.1	M
	General Reference	C.12.4	U
	Cine	C.7.6.5	M
	Multi-frame	C.7.6.6	M
	Image Pixel	C.7.6.3	M
	Acquisition Context	C.7.6.14	M
	Device	C.7.6.12	M
	Specimen	C.7.6.22	C- Required if the Imaging Subject is a Specimen
	VL Image	C.8.12.1	M
	ICC Profile	C.11.15	U
	SOP Common	C.12.1	M
	Common Instance	C.12.2	U

	Reference		
	Frame Extraction	C.12.3	C – Required if the SOP Instance was created in response to a Frame-Level Retrieve Request

Add the following new content to PS3.3 Section A.34:

Add A.34.11 Routine Electroencephalogram IOD

A.34.11 Routine Scalp Electroencephalogram IOD

A.34.11.1 Routine Scalp EEG IOD Description

The Routine Scalp Electroencephalogram (EEG) IOD is the specification of digitized electrical signals from the patient encephalon collected on the skull surface, which has been acquired by an EEG modality or by an EEG acquisition function within an imaging modality.

Note:

This type of object could cover these clinical scenarios:

- Routine EEG
- EEG-Video-Monitoring – scalp EEG
- Longterm-EEG-Monitoring

as these have similar physical properties and use the same electrode location scheme

A.34.11.2 Routine Scalp EEG IOD Entity-Relationship Model

The E-R Model in Section A.34.1 applies to the Routine EEG IOD.

A34.11.3 Routine Scalp EEG IOD Module Table

Table 34.11-1: Routine Scalp EEG IOD Modules

IE	Module	Reference	Usage
Patient	Patient	C.7.1.1	M
	Clinical Trial Subject	C.7.1.3	U
Study	General Study	C.7.2.1	M
	Patient Study	C.7.2.2	U
	Clinical Trial Study	C.7.2.3	U
Series	General Series	C.7.3.1	M
	Clinical Trial Series	C.7.3.2	U
Frame of Reference	Synchronization	C.7.4.2	U
Equipment	General Equipment	C.7.5.1	M
Waveform	Waveform Identification	C.10.8	M
	Waveform	C.10.9	M
	Acquisition Context	C.7.6.14	M
	Waveform Annotation	C.10.10	C - Required if annotation is present
	SOP Common	C.12.1	M

A.34.11.4 Routine Scalp EEG IOD Constraints

A.34.11.4.1 Modality

The value of Modality (0008,0060) shall be EEG.

A.34.11.4.2 Waveform Sequence

The number of Waveform Sequence (5400,0100) Items shall be 1.

A.34.11.4.3 Number of Waveform Channels

The value of Number of Waveform Channels (003A,0005) in each Waveform Sequence Item shall be between **1 and 32**, inclusive.

A.34.11.4.4 Sampling Frequency

The value of Sampling Frequency (003A,001A) in each Waveform Sequence Item shall be between **256 and 1024 Hz**, inclusive.

A.34.11.4.5 Channel Source and Channel Source Modifier

The Defined CID for the Channel Source Sequence (003A,0208) in each Channel Definition Sequence Item shall **be CID 30xx "EEG Leads"**.

Note:

Terms from other Context Groups may also be used for extended specification of the Channel Source, as declared in the Conformance Statement for an application (see PS3.2).

The Channel Source Modifiers Sequence (003A,0209) in each Channel Definition Sequence (003A,0200) Item shall be used to specify additional qualifiers of the semantics of the waveform source, including technique and anatomic location, if not encoded by the Channel Source Code Value. **EEG recordings not using a common reference electrode shall contain the location of the reference electrode for the given channel in the first item of Channel Source Modifier. The defined CID for this item shall be CID 30xx "EEG Leads"**.

A.34.11.4.6 Waveform Sample Interpretation

The value of Waveform Sample Interpretation (5400,1006) in each Waveform Sequence Item shall be SS.

A.34.11.4.7 Waveform Annotation Module

The Defined CID for the Concept Name Code Sequence (0040,A043) in the Waveform Annotation Sequence (0040,B020) shall be **CID 34xx "EEG Annotations"**.

Add the following new content to PS3.3 Section A.34:

Add A.34.12 Intracranial EEG-Video-Monitoring IOD

A.34.12 Intracranial EEG-Video-Monitoring IOD

A.34.12.1 Intracranial EEG-Video-Monitoring IOD Description

The Intracranial EEG-Video-Monitoring IOD is the specification of digitized electrical signals from the patient encephalon collected with intracranial electrodes placed subdurally or intracerebrally, which has been acquired by an EEG modality or by an EEG acquisition function within an imaging modality.

A.34.12.2 Intracranial EEG-Video-Monitoring EEG IOD Entity-Relationship Model

The E-R Model in Section A.34.1 applies to the Intracranial EEG-Video-Monitoring EEG IOD.

A34.12.3 Intracranial EEG-Video-Monitoring EEG IOD Module Table

Table 34.11-1: Intracranial EEG-Video-Monitoring IOD Modules

IE	Module	Reference	Usage
Patient	Patient	C.7.1.1	M
	Clinical Trial Subject	C.7.1.3	U
Study	General Study	C.7.2.1	M
	Patient Study	C.7.2.2	U
	Clinical Trial Study	C.7.2.3	U
Series	General Series	C.7.3.1	M
	Clinical Trial Series	C.7.3.2	U
Frame of Reference	Synchronization	C.7.4.2	U
Equipment	General Equipment	C.7.5.1	M
Waveform	Waveform Identification	C.10.8	M
	Waveform	C.10.9	M
	Acquisition Context	C.7.6.14	M
	Waveform Annotation	C.10.10	C - Required if annotation is present
	SOP Common	C.12.1	M

A.34.12.4 Intracranial EEG-Video-Monitoring EEG IOD Constraints

A.34.12.4.1 Modality

The value of Modality (0008,0060) shall be EEG.

A.34.12.4.2 Waveform Sequence

The number of Waveform Sequence (5400,0100) Items shall be 1.

A.34.12.4.3 Number of Waveform Channels

The value of Number of Waveform Channels (003A,0005) in each Waveform Sequence Item shall be between 1 and 64 or 128, inclusive.

A.34.12.4.4 Sampling Frequency

The value of Sampling Frequency (003A,001A) in each Waveform Sequence Item shall be between 256 and 1024 Hz, inclusive.

A.34.12.4.5 Channel Source and Channel Source Modifier

TODO: There will be no coded positions but other mechanisms will be necessary:
Clin.Scen: "Location is arbitrary, exact electrode position in 3 axes can be specified"

Using referential positioning (spatial fiducials) with imaging.

The Channel Source Modifiers Sequence (003A,0209) in each Channel Definition Sequence (003A,0200) Item shall be used to specify additional qualifiers of the semantics of the waveform source, including technique and anatomic location, if not encoded by the Channel Source Code Value. EEG recordings not using a common reference electrode shall contain the location of the reference electrode for the given channel in the first item of Channel Source Modifier. The defined CID for this item shall be CID 30xx "EEG Leads".

A.34.12.4.6 Waveform Sample Interpretation

The value of Waveform Sample Interpretation (5400,1006) in each Waveform Sequence Item shall be SS.

A.34.12.4.7 Waveform Annotation Module

The Defined CID for the Concept Name Code Sequence (0040,A043) in the Waveform Annotation Sequence (0040,B020) shall be CID 34xx "EEG Annotations".

Add the following new content to PS3.3 Section A.34:

Add A.34.12 High-density Electroencephalogram IOD

A.34.13 High-density Electroencephalogram IOD

A.34.13.1 High-density EEG IOD Description

The High-density Electroencephalogram (EEG) IOD is the specification of digitized electrical signals from the patient encephalon collected on the skull surface <TODO: insert a characteristic trait to distinguish from Routine> , which has been acquired by an EEG modality or by an EEG acquisition function within an imaging modality.

A.34.13.2 High-density EEG IOD Entity-Relationship Model

The E-R Model in Section A.34.1 applies to the High-density EEG IOD.

A34.13.3 High-density EEG IOD Module Table

Table 34.11-1: High-density EEG IOD Modules

IE	Module	Reference	Usage
Patient	Patient	C.7.1.1	M
	Clinical Trial Subject	C.7.1.3	U
Study	General Study	C.7.2.1	M
	Patient Study	C.7.2.2	U
	Clinical Trial Study	C.7.2.3	U
Series	General Series	C.7.3.1	M
	Clinical Trial Series	C.7.3.2	U
Frame of Reference	Synchronization	C.7.4.2	U
Equipment	General Equipment	C.7.5.1	M
Waveform	Waveform Identification	C.10.8	M
	Waveform	C.10.9	M
	Acquisition Context	C.7.6.14	M
	Waveform Annotation	C.10.10	C - Required if annotation is present
	SOP Common	C.12.1	M

A.34.13.4 High-density EEG IOD Constraints

A.34.13.4.1 Modality

The value of Modality (0008,0060) shall be EEG.

A.34.13.4.2 Waveform Sequence

The number of Waveform Sequence (5400,0100) Items shall be 1.

A.34.13.4.3 Number of Waveform Channels

The value of Number of Waveform Channels (003A,0005) in each Waveform Sequence Item shall be between 64 and 256, inclusive.

A.34.13.4.4 Sampling Frequency

The value of Sampling Frequency (003A,001A) in each Waveform Sequence Item shall be between 256 and 1024 Hz, inclusive.

A.34.13.4.5 Channel Source and Channel Source Modifier

TODO: There will be other coded positions or even other mechanisms (coordinates); Clin.Scen: "Use of more densely spaced electrodes, set not according to the 10/20 system. Requires information on the 3D placement of the electrodes (electrode coordinate files, as measured by different systems, Polhemus, GPS, Geoscan, etc)."

The Channel Source Modifiers Sequence (003A,0209) in each Channel Definition Sequence (003A,0200) Item shall be used to specify additional qualifiers of the semantics of the waveform source, including technique and anatomic location, if not encoded by the Channel Source Code Value. EEG recordings not using a common reference electrode shall contain the location of the reference electrode for the given channel in the first item of Channel Source Modifier. The defined CID for this item shall be CID 30xx "EEG Leads".

A.34.13.4.6 Waveform Sample Interpretation

The value of Waveform Sample Interpretation (5400,1006) in each Waveform Sequence Item shall be SS.

A.34.13.4.7 Waveform Annotation Module

The Defined CID for the Concept Name Code Sequence (0040,A043) in the Waveform Annotation Sequence (0040,B020) shall be CID 34xx "EEG Annotations".

Add the following new content to PS3.3 Section A.34:

Add A.34.14 Electromyogram IOD

A.34.14 Electromyogram IOD

A.34.14.1 Electromyogram IOD Description

The Electromyography (EMG) IOD is the specification of digitized electrical signals evoked by the patient's muscle movements collected on the skin, which has been acquired by an EMG modality or by an EMG acquisition function within an polysomnography modality.

A.34.14.2 Electromyogram IOD Entity-Relationship Model

This IOD uses the E-R Model in Section A.1.2, with only the Waveform IE below the Series IE.

A34.14.3 Electromyogram IOD Module Table

Table 34.11-1: Electromyogram IOD Modules

IE	Module	Reference	Usage
Patient	Patient	C.7.1.1	M
	Clinical Trial Subject	C.7.1.3	U
Study	General Study	C.7.2.1	M
	Patient Study	C.7.2.2	U
	Clinical Trial Study	C.7.2.3	U
Series	General Series	C.7.3.1	M
	Clinical Trial Series	C.7.3.2	U
Frame of Reference	Synchronization	C.7.4.2	U
Equipment	General Equipment	C.7.5.1	M
Waveform	Waveform Identification	C.10.8	M
	Waveform	C.10.9	M
	Acquisition Context	C.7.6.14	M
	Waveform Annotation	C.10.10	C - Required if annotation is present
	SOP Common	C.12.1	M

A.34.14.4 Electromyogram IOD Constraints

A.34.14.4.1 Modality

The value of Modality (0008,0060) shall be EMG.

A.34.14.4.2 Waveform Sequence

The number of Waveform Sequence (5400,0100) Items will be defined by the standardization work group.

A.34.14.4.3 Number of Waveform Channels

The value of Number of Waveform Channels (003A,0005) in each Waveform Sequence Item will be defined by the standardization work group.

A.34.14.4.4 Sampling Frequency

The value of Sampling Frequency (003A,001A) in each Waveform Sequence will be defined by the standardization work group.

A.34.14.4.5 Channel Source and Channel Source Modifier

The Defined CID for the Channel Source Sequence (003A,0208) in each Channel Definition Sequence Item shall be CID 30yy "EMG Leads".

Note:

Terms from other Context Groups may also be used for extended specification of the Channel Source, as declared in the Conformance Statement for an application (see PS3.2).

EMG recordings not using a common reference electrode shall contain the location of the reference electrode for the given channel in the first item of Channel Source Modifier Sequence (003A,0209). The defined CID for this item shall be CID 300x "EMG Leads". Other allowed CIDs will be defined by the standardization work group.

A.34.14.4.6 Waveform Sample Interpretation

The value of Waveform Sample Interpretation (5400,1006) in each Waveform Sequence (0054,0100) Item shall be SS.

A.34.14.4.7 Waveform Annotation Module

The Defined CID for the Concept Name Code Sequence (0040,A043) in the Waveform Annotation Sequence (0040,B020) shall be CID 34yy "EMG Annotations".

Add the following new content to PS3.3 Section A.34:

Add A.34.15 Electrooculogram IOD

A.34.15 Electrooculogram IOD

A.34.15.1 Electrooculogram IOD Description

The Electrooculogram (EOG) IOD is the specification of digitized electrical signals evoked by the patient's eye movements collected on the face, which has been acquired by an EOG modality or by an EOG acquisition function within a polysomnography modality.

A.34.15.2 Electrooculogram IOD Entity-Relationship Model

This IOD uses the E-R Model in Section A.1.2, with only the Waveform IE below the Series IE.

A34.15.3 Electrooculogram IOD Module Table

Table 34.11-1: Electrooculogram IOD Modules

IE	Module	Reference	Usage
Patient	Patient	C.7.1.1	M
	Clinical Trial Subject	C.7.1.3	U
Study	General Study	C.7.2.1	M
	Patient Study	C.7.2.2	U
	Clinical Trial Study	C.7.2.3	U
Series	General Series	C.7.3.1	M
	Clinical Trial Series	C.7.3.2	U
Frame of Reference	Synchronization	C.7.4.2	U
Equipment	General Equipment	C.7.5.1	M
Waveform	Waveform Identification	C.10.8	M
	Waveform	C.10.9	M
	Acquisition Context	C.7.6.14	M
	Waveform Annotation	C.10.10	C - Required if annotation is present
	SOP Common	C.12.1	M

A.34.15.4 Electrooculogram IOD Constraints

A.34.15.4.1 Modality

The value of Modality (0008,0060) shall be EOG.

A.34.15.4.2 Waveform Sequence

The number of Waveform Sequence (5400,0100) Items shall be 1.

A.34.15.4.3 Number of Waveform Channels

The value of Number of Waveform Channels (003A,0005) in each Waveform Sequence Item will be defined by the standardization work group.

A.34.15.4.4 Sampling Frequency

The value of Sampling Frequency (003A,001A) in each Waveform Sequence Item will be defined by the standardization work group.

A.34.15.4.5 Channel Source and Channel Source Modifier

The Defined CID for the Channel Source Sequence (003A,0208) in each Channel Definition Sequence Item shall be CID 30zz "EOG Leads".

Note:

Terms from other Context Groups may also be used for extended specification of the Channel Source, as declared in the Conformance Statement for an application (see PS3.2).

EOG recordings not using a common reference electrode shall contain the location of the reference electrode for the given channel in the first item of Channel Source Modifier Sequence (003A,0209). The defined CID for this item shall be CID 30zz "EOG Leads". Other allowed CIDs will be defined by the standardization work group.

A.34.15.4.6 Waveform Sample Interpretation

The value of Waveform Sample Interpretation (5400,1006) in each Waveform Sequence (0054,0100) Item shall be SS.

A.34.15.4.7 Waveform Annotation Module

The defined CID for the Concept Name Code Sequence (0040,A043) in the Waveform Annotation Sequence (0040,B020) shall be CID 34zz "EOG Annotations".

Add the following new content to PS3.3 C.7.3.1.1.1 Modality:

Add EEG Electroencephalogram

Add EMG Electromyogram

Add EOG Electrooculogram

Digital Imaging and Communications in Medicine (DICOM) Part 4: Service Class Specifications

Add new SOP Class to PS 3.4 Annex B tables

B.5 Standard SOP classes

The SOP Classes in the Storage Service Class identify the Composite IODs to be stored. Table B.5-1 identifies Standard SOP Classes.

Table B.5-1. Standard SOP Classes

SOP Class Name	SOP Class UID	IOD Specification (defined in PS 3.3)
...	...	...
<u>Routine Scalp EEG Waveform Storage</u>	<u>1.2.840.10008.5.1.4.1.1.9.xx</u>	<u>Routine Scalp Electroencephalogram IOD</u>
<u>Intracranial EEG-Video Monitoring Waveform Storage</u>	<u>1.2.840.10008.5.1.4.1.1.9.aa</u>	<u>Intracranial EEG-Video-Monitoring IOD</u>
<u>High-density Electroencephalogram Waveform Storage</u>	<u>1.2.840.10008.5.1.4.1.1.9.bb</u>	<u>High-density Electroencephalogram IOD</u>
<u>EMG Waveform Storage</u>	<u>1.2.840.10008.5.1.4.1.1.9.yy</u>	<u>Electromyogram IOD</u>
<u>EOG Waveform Storage</u>	<u>1.2.840.10008.5.1.4.1.1.9.zz</u>	<u>Electrooculogram IOD</u>
...		

Changes to NEMA Standards Publications PS 3.6

Digital Imaging and Communications in Medicine (DICOM) Part 6: Data Dictionary

Add new SOP Classes to PS 3.6 Annex A Table A-1:

UID Value	UID Name	UID Type	Part
...	...	...	...
<u>1.2.840.10008.5.1.4.1.1.9.xx</u>	<u>Routine Scalp EEG Waveform Storage</u>	<u>SOP Class</u>	<u>PS 3.4</u>
<u>1.2.840.10008.5.1.4.1.1.9.aa</u>	<u>Intracranial EEG-Video Monitoring Waveform Storage</u>	<u>SOP Class</u>	<u>PS3.4</u>
<u>1.2.840.10008.5.1.4.1.1.9.bb</u>	<u>High-density Electroencephalogram Waveform Storage</u>	<u>SOP Class</u>	<u>PS3.4</u>
<u>1.2.840.10008.5.1.4.1.1.9.yy</u>	<u>EMG Waveform Storage</u>	<u>SOP Class</u>	<u>PS 3.4</u>

<u>1.2.840.10008.5.1.4.1.1.9.zz</u>	<u>EOG Waveform Storage</u>	<u>SOP Class</u>	<u>PS 3.4</u>
...	...	...	...

Add new Context Group UID Values to Table A-3:

Context UID	Context Identifier	Context Group Name
...	...	...
<u>1.2.840.10008.6.1.xxxx</u>	<u>CID 30xx</u>	<u>EEG Leads</u>
<u>1.2.840.10008.6.1.yyyy</u>	<u>CID 30yy</u>	<u>EMG Leads</u>
<u>1.2.840.10008.6.1.zzzz</u>	<u>CID 30zz</u>	<u>EOG Leads</u>
<u>1.2.840.10008.6.1.xxxx</u>	<u>CID 34xx</u>	<u>EEG Annotations</u>
<u>1.2.840.10008.6.1.yyyy</u>	<u>CID 34yy</u>	<u>EMG Annotations</u>
<u>1.2.840.10008.6.1.zzzz</u>	<u>CID 34zz</u>	<u>EOG Annotations</u>

Changes to NEMA Standards Publications PS 3.16

Digital Imaging and Communications in Medicine (DICOM) Part 16: Content Mapping Resource

Add new Context Groups, Acquisition Context and SR IOD Templates

TODO: check other Waveform relevant Context Groups and Templates like CID 3090 Time Synchronization Channel Types – maybe some of them need extension, too

<TODO: ensure permission to use ISO/IEEE 11073 codes for EEG, EMG and EOG body sites, ... 2019-04-18: presenting the codes of ISO/IEEE 11073 10101 Nomenclature for working on this supplement within this workgroup is permitted>

CID 29 Acquisition Modality

Add - | DCM | EEG | Electroencephalography

Add - | DCM | EMG | Electromyography

Add - | DCM | EOG | Electrooculography

CID 30xx EEG Leads

This Context Group comprises the EEG lead identifiers of ISO/IEEE 11073-10101. The terms included in the table below may not constitute the complete list; see the ISO/IEEE Standard.

Note:

Codes reprinted by permission of IEEE, Copyright 2004 by IEEE. ISO/IEEE 11073-10101 available through <http://standards.ieee.org>.

Resources: <....>
Type: Extensible
Version: 20040624
UID: <...>

Table CID 30xx. EEG Leads

Coding Scheme	Code Value	Acronym	Code Meaning	ISO/IEEE 11073 MDC Equivalent Reference ID (Informative)
MDC	7:996	Nz	Nasion (theta 112.5, phi 90)	MDC_HEAD_NASION_MID
MDC	7:1000	Fpz	Frontopolar (theta 90, phi 90)	MDC_HEAD_FRONT_POLAR_MID
MDC	7:1004	AFz	Anterior frontal (theta 67.5, phi 90)	MDC_HEAD_FRONT_ANT_MID
MDC	7:1008	Fz	Frontal (theta 45, phi 90)	MDC_HEAD_FRONT_MID
MDC	7:1012	FCz	Frontocentral (theta 22.5, phi 90)	MDC_HEAD_FRONT_CENT_MID
MDC	7:1016	Cz	Central (theta 0, phi 0)	MDC_HEAD_CENT_MID
MDC	7:1020	CPz	Centroparietal (theta 22.5, phi 270)	MDC_HEAD_PARIET_MEDIA
MDC	7:1024	Pz	Parietal (theta 45, phi 270)	MDC_HEAD_PARIET_MID
MDC	7:1028	POz	Parieto-occipital (theta 67.5, phi 270)	MDC_HEAD_PARIET_OCCIP_MID
MDC	7:1032	Oz	Occipital (theta 90, phi 270)	MDC_HEAD_OCCIP_MID
MDC	7:1036	Iz	Inionl (theta 112.5, phi 270)	MDC_HEAD_INION_MID
MDC	7:1041	Fp1	Frontopolar (theta 90, phi 108)	MDC_HEAD_FRONT_POLAR_L
MDC	7:1042	Fp2	Frontopolar (theta 90, phi 72)	MDC_HEAD_FRONT_POLAR_R
MDC	7:1049	F1	Frontal (theta 52.9, phi 112)	MDC_HEAD_FRONT_L_1
MDC	7:1054	F2	Frontal (theta 52.9, phi 68)	MDC_HEAD_FRONT_R_2
MDC	7:1057	F3	Frontal (theta 64, phi 129.1)	MDC_HEAD_FRONT_L_3
MDC	7:1062	F4	Frontal (theta 64, phi 50.9)	MDC_HEAD_FRONT_R_4
MDC	7:1065	F5	Frontal (theta 76.9, phi 136.9)	MDC_HEAD_FRONT_L_5
MDC	7:1070	F6	Frontal (theta 76.9, phi 43.1)	MDC_HEAD_FRONT_R_6
MDC	7:1073	F7	Frontal (theta 90, phi 144)	MDC_HEAD_FRONT_L_7
MDC	7:1078	F8	Frontal (theta 90, phi 36)	MDC_HEAD_FRONT_R_8
MDC	7:1081	F9	Frontal (theta 103.7, phi 149.4)	MDC_HEAD_FRONT_L_9
MDC	7:1086	F10	Frontal (theta 103.7, phi 30.6)	MDC_HEAD_FRONT_R_10
MDC	7:1089	FC1	Frontocentral (theta 33.4, phi 132.7)	MDC_HEAD_FRONT_CENT_L_1
MDC	7:1094	FC2	Frontocentral (theta 33.4, phi 47.3)	MDC_HEAD_FRONT_CENT_R_2

MDC	7:1097	FC3	Frontocentral (theta 51.7, phi 151.3)	MDC_HEAD_FRONT_CENT_L_3
MDC	7:1102	FC4	Frontocentral (theta 51.7, phi 28.7)	MDC_HEAD_FRONT_CENT_R_4
MDC	7:1105	FC5	Frontocentral (theta 71, phi 157.9)	MDC_HEAD_FRONT_CENT_L_5
MDC	7:1110	FC6	Frontocentral (theta 71, phi 22.1)	MDC_HEAD_FRONT_CENT_R_6
MDC	7:1113	FT7	Frontotemporal (theta 90, phi 162)	MDC_HEAD_FRONT_TEMPOR_L_7
MDC	7:1118	FT8	Frontotemporal (theta 90, phi 18)	MDC_HEAD_FRONT_TEMPOR_R_8
MDC	7:1121	FT9	Frontotemporal (theta 108.7, phi 164.3)	MDC_HEAD_FRONT_TEMPOR_L_9
MDC	7:1126	FT10	Frontotemporal (theta 108.7, phi 15.7)	MDC_HEAD_FRONT_TEMPOR_R_10
MDC	7:1129	C1	Central (theta 22.5, phi 180)	MDC_HEAD_CENT_L_1
MDC	7:1134	C2	Central (theta 22.5, phi 0)	MDC_HEAD_CENT_R_2
MDC	7:1137	C3	Central (theta 45, phi 180)	MDC_HEAD_CENT_L_3
MDC	7:1142	C4	Central (theta 45, phi 0)	MDC_HEAD_CENT_R_4
MDC	7:1145	C5	Central (theta 62.5, phi 180)	MDC_HEAD_CENT_L_5
MDC	7:1150	C6	Central (theta 62.5, phi 0)	MDC_HEAD_CENT_R_6
MDC	7:1153	CP1	Centroparietal (theta 33.4, phi 227.3)	MDC_HEAD_PARIET_CENT_L_1
MDC	7:1158	CP2	Centroparietal (theta 33.4, phi 312.7)	MDC_HEAD_PARIET_CENT_R_2
MDC	7:1161	CP3	Centroparietal (theta 51.7, phi 208.7)	MDC_HEAD_PARIET_CENT_L_3
MDC	7:1166	CP4	Centroparietal (theta 51.7, phi 331.3)	MDC_HEAD_PARIET_CENT_R_4
MDC	7:1169	CP5	Centroparietal (theta 71, phi 202.1)	MDC_HEAD_PARIET_CENT_L_5
MDC	7:1174	CP6	Centroparietal (theta 71, phi 337.9)	MDC_HEAD_PARIET_CENT_R_6
MDC	7:1177	P1	Parietal (theta 52.9, phi 248)	MDC_HEAD_PARIET_L_1
MDC	7:1182	P2	Parietal (theta 52.9, phi 292)	MDC_HEAD_PARIET_R_2
MDC	7:1185	P3	Parietal (theta 64, phi 230.9)	MDC_HEAD_PARIET_L_3
MDC	7:1190	P4	Parietal (theta 64, phi 309.1)	MDC_HEAD_PARIET_R_4
MDC	7:1193	P5	Parietal (theta 76.9, phi 223.1)	MDC_HEAD_PARIET_L_5
MDC	7:1198	P6	Parietal (theta 76.9, phi 316.9)	MDC_HEAD_PARIET_R_6
MDC	7:1201	P9	Parietal (theta 103.7, phi 210.6)	MDC_HEAD_PARIET_L_9
MDC	7:1206	P10	Parietal (theta 103.7, phi 329.4)	MDC_HEAD_PARIET_R_10
MDC	7:1209	O1	Occipital (theta 90, phi 252)	MDC_HEAD_OCCIP_L
MDC	7:1214	O2	Occipital (theta 90, phi 288)	MDC_HEAD_OCCIP_R
MDC	7:1217	AF3	Anterior frontal (theta 76.8, phi 118)	MDC_HEAD_FRONT_ANT_L_3

MDC	7:1222	AF4	Anterior frontal (theta 76.8, phi 62)	MDC_HEAD_FRONT_ANT_R_4
MDC	7:1225	AF7	Anterior frontal (theta 90, phi 126)	MDC_HEAD_FRONT_ANT_L_7
MDC	7:1230	AF8	Anterior frontal (theta 90, phi 54)	MDC_HEAD_FRONT_ANT_R_8
MDC	7:1233	PO3	Parieto-occipital (theta 76.8, phi 242)	MDC_HEAD_PARIET_OCCIP_L_3
MDC	7:1238	PO4	Parieto-occipital (theta 76.8, phi 298)	MDC_HEAD_PARIET_OCCIP_R_4
MDC	7:1241	PO7	Parieto-occipital (theta 90, phi 234)	MDC_HEAD_PARIET_OCCIP_L_7
MDC	7:1246	PO8	Parieto-occipital (theta 90, phi 306)	MDC_HEAD_PARIET_OCCIP_R_8
MDC	7:1249	T3	Temporal (theta 90, phi 180)	MDC_HEAD_TEMPOR_L_3
MDC	7:1254	T4	Temporal (theta 90, phi 0)	MDC_HEAD_TEMPOR_R_4
MDC	7:1257	T5	Temporal (theta 90, phi 216)	MDC_HEAD_TEMPOR_L_5
MDC	7:1262	T6	Temporal (theta 90, phi 324)	MDC_HEAD_TEMPOR_R_6
MDC	7:1265	T9	Temporal (theta 112.5, phi 180)	MDC_HEAD_TEMPOR_L_9
MDC	7:1270	T10	Temporal (theta 112.5, phi 0)	MDC_HEAD_TEMPOR_R_10
MDC	7:1273	TP7	Temporoparietal (theta 90, phi 198)	MDC_HEAD_TEMPOR_PARIET_L_7
MDC	7:1278	TP8	Temporoparietal (theta 90, phi 342)	MDC_HEAD_TEMPOR_PARIET_R_8
MDC	7:1281	TP9	Temporoparietal (theta 108.7, phi 195.7)	MDC_HEAD_TEMPOR_PARIET_L_9
MDC	7:1286	TP10	Temporoparietal (theta 108.7, phi 344.3)	MDC_HEAD_TEMPOR_PARIET_R_10
MDC	7:1289	A1	Left ear (theta 120, phi 180)	MDC_HEAD_EAR_L
MDC	7:1290	A2	Right ear (theta 120, phi 0)	MDC_HEAD_EAR_R
MDC	7:1297	T1	Anterior temporal (theta 106, phi 162)	MDC_HEAD_TEMPOR_ANT_L
MDC	7:1298	T2	Anterior temporal (theta 106, phi 18)	MDC_HEAD_TEMPOR_ANT_R
MDC	7:1305	Pg1	Pharyngeal	MDC_HEAD_PHARYNGEAL_L
MDC	7:1306	Pg2	Pharyngeal	MDC_HEAD_PHARYNGEAL_R
MDC	7:1313	Sp1	Sphenoidal	MDC_HEAD_SPHENOIDAL_L
MDC	7:1314	Sp2	Sphenoidal	MDC_HEAD_SPHENOIDAL_R

CID 30yy EMG Leads

This Context Group comprises the EMG lead identifiers of ISO/IEEE 11073-10101. The terms included in the table below may not constitute the complete list; see the ISO/IEEE Standard.

Note

Codes reprinted by permission of IEEE, Copyright 2004 by IEEE. ISO/IEEE 11073-10101 available through <http://standards.ieee.org>.

Resources: <....>
Type: Extensible
Version: 20040624
UID: <....>

Table CID 30yy. EMG Leads (only 3 samples)

Coding Scheme	Code Value	Code Meaning	ISO/IEEE 11073 MDC Equivalent Reference ID (Informative)
MDC	7:248	[Skeletal muscle, NOS, T-13000]	MDC_MUSC_SKELETAL
MDC	7:417	Musculus mylohyoideus, Left [Mylohyoid muscle, Left, T-13350-LFT,(submental EMG)]	MDC_MUSC_NECK_MYLOHYOID_L
MDC	7:994	Musculus interossei plantares, Right [Interosseous plantares muscles, Right, T-14970-RGT]	MDC_MUSC_LOEXT_INTEROSS_PLANTAR_R

Full List of Codes for sites for neurophysiological signal monitoring: locations near muscles (as screen shots)

(? Codes refer to SNOMED codes – should we better use them ?)

SNOMED Codes for some anatomic regions are already part of DICOM (see [PS3.16](#)) e.g. [CID 4028](#) Craniofacial Anatomic Regions or [CID 4031](#) Common Anatomic Regions.

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles

Systematic name	Description/Definition	Reference ID	Code
Muscle Skeletal, NOS Body	[Skeletal muscle, NOS, T-13000]	MDC_MUSC_SKELETAL	248
Muscle Skeletal, Left Body	[Skeletal muscle, NOS, Left, T-13000-LFT]	MDC_MUSC_SKELETAL_L	249
Muscle Skeletal, Right Body	[Skeletal muscle, NOS, Right, T-13000-RGT]	MDC_MUSC_SKELETAL_R	250
Muscle NOS Head Body	MUSCULI CAPITIS [Muscle of head, NOS, T-13100]	MDC_MUSC_HEAD	252
Muscle Left Head Body	MUSCULI CAPITIS, Left [Muscle of head, NOS, Left, T-13100-LFT]	MDC_MUSC_HEAD_L	253
Muscle Right Head Body	MUSCULI CAPITIS, Right [Muscle of head, NOS, Right, T-13100-RGT]	MDC_MUSC_HEAD_R	254
Muscle Eye, NOS Head Body	MUSCULI BULBI [Extrinsic ocular muscle, NOS, T-13170]	MDC_MUSC_HEAD_EYE	256
Muscle Eye, Left Head Body	MUSCULI BULBI, Left [Extrinsic ocular muscle, NOS, Left, T-13170-LFT]	MDC_MUSC_HEAD_EYE_L	257
Muscle Eye, Right Head Body	MUSCULI BULBI, Right [Extrinsic ocular muscle, NOS, Right, T-13170-RGT]	MDC_MUSC_HEAD_EYE_R	258
Muscle Rectus, Superior, NOS Head Body	Musculus rectus superior [Superior rectus muscle, T-13180]	MDC_MUSC_HEAD_RECT_SUP	260
Muscle Rectus, Superior, Left Head Body	Musculus rectus superior, Left [Superior rectus muscle, Left, T-13180-LFT]	MDC_MUSC_HEAD_RECT_SUP_L	261
Muscle Rectus, Superior, Right Head Body	Musculus rectus superior, Right [Superior rectus muscle, Right, T-13180-RGT]	MDC_MUSC_HEAD_RECT_SUP_R	262
Muscle Rectus, Inferior, NOS Head Body	Musculus rectus inferior [Inferior rectus muscle, T-13190]	MDC_MUSC_HEAD_RECT_INF	264
Muscle Rectus, Inferior, Left Head Body	Musculus rectus inferior, Left [Inferior rectus muscle, Left, T-13190-LFT]	MDC_MUSC_HEAD_RECT_INF_L	265
Muscle Rectus, Inferior, Right Head Body	Musculus rectus inferior, Right [Inferior rectus muscle, Right, T-13190-RGT]	MDC_MUSC_HEAD_RECT_INF_R	266
Muscle Rectus, Medialis, NOS Head Body	Musculus rectus medialis [Medial rectus muscle, T-13200]	MDC_MUSC_HEAD_RECT_MED	268
Muscle Rectus, Medialis, Left Head Body	Musculus rectus medialis, Left [Medial rectus muscle, Left, T-13200-LFT]	MDC_MUSC_HEAD_RECT_MED_L	269

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles (continued)

Systematic name	Description/Definition	Reference ID	Code
Muscle Rectus, Medialis, Right Head Body	Musculus rectus medialis, Right [Medial rectus muscle, Right, T-13200-RGT]	MDC_MUSC_HEAD_RECT_MED_R	270
Muscle Rectus, Lateralis, NOS Head Body	Musculus rectus lateralis [Lateral rectus muscle, T-13210]	MDC_MUSC_HEAD_RECT_LAT	272
Muscle Rectus, Lateralis, Left Head Body	Musculus rectus lateralis, Left [Lateral rectus muscle, Left, T-13210-LFT]	MDC_MUSC_HEAD_RECT_LAT_L	273
Muscle Rectus, Lateralis, Right Head Body	Musculus rectus lateralis, Right [Lateral rectus muscle, Right, T-13210-RGT]	MDC_MUSC_HEAD_RECT_LAT_R	274
Muscle Obliquus, Superior, NOS Head Body	Musculus obliquus superior [Superior oblique muscle, T-13220]	MDC_MUSC_HEAD_OBLIQ_SUP	276
Muscle Obliquus, Superior, Left Head Body	Musculus obliquus superior, Left [Superior oblique muscle, Left, T-13220-LFT]	MDC_MUSC_HEAD_OBLIQ_SUP_L	277
Muscle Obliquus, Superior, Right Head Body	Musculus obliquus superior, Right [Superior oblique muscle, Right, T-13220-RGT]	MDC_MUSC_HEAD_OBLIQ_SUP_R	278
Muscle Obliquus, Inferior, NOS Head Body	Musculus obliquus inferior [Inferior oblique muscle, T-13230]	MDC_MUSC_HEAD_OBLIQ_INF	280
Muscle Obliquus, Inferior, Left Head Body	Musculus obliquus inferior, Left [Inferior oblique muscle, Left, T-13230-LFT]	MDC_MUSC_HEAD_OBLIQ_INF_L	281
Muscle Obliquus, Inferior, Right Head Body	Musculus obliquus inferior, Right [Inferior oblique muscle, Right, T-13230-RGT]	MDC_MUSC_HEAD_OBLIQ_INF_R	282
Muscle NOS Head, Facial Body	MUSCULI FACIALES ET MASTICATOIRES [Facial muscle, NOS, T-13150]	MDC_MUSC_HEAD_FACIAL	284
Muscle Left Head, Facial Body	MUSCULI FACIALES ET MASTICATOIRES, Left [Facial muscle, NOS, Left, T-13150-LFT]	MDC_MUSC_HEAD_FACIAL_L	285
Muscle Right Head, Facial Body	MUSCULI FACIALES ET MASTICATOIRES, Right [Facial muscle, NOS, Right, T-13150-RGT]	MDC_MUSC_HEAD_FACIAL_R	286
Muscle Occipitofrontalis, Venter, Frontalis, NOS Head Body	Musculus occipitofrontalis, Venter frontalis [Occipitofrontalis muscle, frontal belly, T-13142]	MDC_MUSC_HEAD_OCCIPITOFONT_VENTER	288

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles *(continued)*

Systematic name	Description/Definition	Reference ID	Code
Muscle Occipitofrontalis, Venter, Frontalis, Left Head Body	Musculus occipitofrontalis, Venter frontalis, Left [Occipitofrontalis muscle, frontal belly, Left, T-13142-LFT]	MDC_MUSC_HEAD_OCCIPITOFRONT_VENTER_L	289
Muscle Occipitofrontalis, Venter, Frontalis, Right Head Body	Musculus occipitofrontalis, Venter frontalis, Right [Occipitofrontalis muscle, frontal belly, Right, T-13142-RGT]	MDC_MUSC_HEAD_OCCIPITOFRONT_VENTER_R	290
Muscle Orbicularis, Oculi, NOS Head Body	Musculus orbicularis oculi [Orbicularis oculi muscle, NOS, T-13160]	MDC_MUSC_HEAD_ORBIC_OCUL	292
Muscle Orbicularis, Oculi, Left Head Body	Musculus orbicularis oculi, Left [Orbicularis oculi muscle, NOS, Left, T-13160-LFT]	MDC_MUSC_HEAD_ORBIC_OCUL_L	293
Muscle Orbicularis, Oculi, Right Head Body	Musculus orbicularis oculi, Right [Orbicularis oculi muscle, NOS, Right, T-13160-RGT]	MDC_MUSC_HEAD_ORBIC_OCUL_R	294
Muscle Orbicularis, Oculi, Pars, Orbitalis, NOS Head Body	Musculus orbicularis oculi, Pars orbitalis [Orbicularis oculi muscle, orbital part, T-13162]	MDC_MUSC_HEAD_ORBIC_OCUL_PARS_ORBIT	296
Muscle Orbicularis, Oculi, Pars, Orbitalis, Left Head Body	Musculus orbicularis oculi, Pars orbitalis, Left [Orbicularis oculi muscle, orbital part, Left, T-13162-LFT]	MDC_MUSC_HEAD_ORBIC_OCUL_PARS_ORBIT_L	297
Muscle Orbicularis, Oculi, Pars, Orbitalis, Right Head Body	Musculus orbicularis oculi, Pars orbitalis, Right [Orbicularis oculi muscle, orbital part, Right, T-13162-RGT]	MDC_MUSC_HEAD_ORBIC_OCUL_PARS_ORBIT_R	298
Muscle Auricularis, Posterior, NOS Head Body	Musculus auricularis posterior [Posterior auricularis muscle, T-13243]	MDC_MUSC_HEAD_AURIC_POST	300
Muscle Auricularis, Posterior, Left Head Body	Musculus auricularis posterior, Left [Posterior auricularis muscle, Left, T-13243-LFT]	MDC_MUSC_HEAD_AURIC_POST_L	301
Muscle Auricularis, Posterior, Right Head Body	Musculus auricularis posterior, Right [Posterior auricularis muscle, Right, T-13243-RGT]	MDC_MUSC_HEAD_AURIC_POST_R	302
Muscle Orbicularis, Oris, NOS Head Body	Musculus orbicularis oris [Orbicularis oris muscle, T-13290]	MDC_MUSC_HEAD_ORBIC_ORIS	304
Muscle Orbicularis, Oris, Left Head Body	Musculus orbicularis oris, Left [Orbicularis oris muscle, Left, T-13290-LFT]	MDC_MUSC_HEAD_ORBIC_ORIS_L	305
Muscle Orbicularis, Oris, Right Head Body	Musculus orbicularis oris, Right [Orbicularis oris muscle, Right, T-13290-RGT]	MDC_MUSC_HEAD_ORBIC_ORIS_R	306

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles *(continued)*

Systematic name	Description/Definition	Reference ID	Code
Muscle Depressor, Anguli, Oris, NOS Head, Facial Body	Musculus depressor anguli oris [Depressor anguli oris muscle, T-13151]	MDC_MUSC_HEAD_DEPRESSOR_ANGUL_ORIS	308
Muscle Depressor, Anguli, Oris, Left Head, Facial Body	Musculus depressor anguli oris, Left [Depressor anguli oris muscle, Left, T-13151-LFT]	MDC_MUSC_HEAD_DEPRESSOR_ANGUL_ORIS_L	309
Muscle Depressor, Anguli, Oris, Right Head, Facial Body	Musculus depressor anguli oris, Right [Depressor anguli oris muscle, Right, T-13151-RGT]	MDC_MUSC_HEAD_DEPRESSOR_ANGUL_ORIS_R	310
Muscle Risorius, NOS Head, Facial Body	Musculus risorius [Risorius muscle, T-13152]	MDC_MUSC_HEAD_RISOR	312
Muscle Risorius, Left Head, Facial Body	Musculus risorius, Left [Risorius muscle, Left, T-13152-LFT]	MDC_MUSC_HEAD_RISOR_L	313
Muscle Risorius, Right Head, Facial Body	Musculus risorius, Right [Risorius muscle, Right, T-13152-RGT]	MDC_MUSC_HEAD_RISOR_R	314
Muscle Zygomaticus, Major, NOS Head, Facial Body	Musculus zygomaticus major [Zygomaticus major muscle, T-13153]	MDC_MUSC_HEAD_ZYGOMATIC_MAJOR	316
Muscle Zygomaticus, Major, Left Head, Facial Body	Musculus zygomaticus major, Left [Zygomaticus major muscle, Left, T-13153-LFT]	MDC_MUSC_HEAD_ZYGOMATIC_MAJOR_L	317
Muscle Zygomaticus, Major, Right Head, Facial Body	Musculus zygomaticus major, Right [Zygomaticus major muscle, Right, T-13153-RGT]	MDC_MUSC_HEAD_ZYGOMATIC_MAJOR_R	318
Muscle Zygomaticus, Minor, NOS Head, Facial Body	Musculus zygomaticus minor [Zygomaticus minor muscle, T-13154]	MDC_MUSC_HEAD_ZYGOMATIC_MINOR	320
Muscle Zygomaticus, Minor, Left Head, Facial Body	Musculus zygomaticus minor, Left [Zygomaticus minor muscle, Left, T-13154-LFT]	MDC_MUSC_HEAD_ZYGOMATIC_MINOR_L	321
Muscle Zygomaticus, Minor, Right Head, Facial Body	Musculus zygomaticus minor, Right [Zygomaticus minor muscle, Right, T-13154-RGT]	MDC_MUSC_HEAD_ZYGOMATIC_MINOR_R	322
Muscle Levator, Labii, Superioris, NOS Head, Facial Body	Musculus levator labii superioris [Levator labii superioris muscle, T-13155]	MDC_MUSC_HEAD_LEVATOR_LAB_SUP	324
Muscle Levator, Labii, Superioris, Left Head, Facial Body	Musculus levator labii superioris, Left [Levator labii superioris muscle, Left, T-13155-LFT]	MDC_MUSC_HEAD_LEVATOR_LAB_SUP_L	325
Muscle Levator, Labii, Superioris, Right Head, Facial Body	Musculus levator labii superioris, Right [Levator labii superioris muscle, Right, T-13155-RGT]	MDC_MUSC_HEAD_LEVATOR_LAB_SUP_R	326

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles (continued)

Systematic name	Description/Definition	Reference ID	Code
Muscle Levator, Labii, Superioris, Alaeque, Nasi, NOS Head, Facial Body	Musculus levator labii superioris alaeque nasi [Levator labii superioris alaeque nasi muscle, T-13156]	MDC_MUSC_HEAD_LEVATOR_LAB_SUP_AL_NASI	328
Muscle Levator, Labii, Superioris, Alaeque, Nasi, Left Head, Facial Body	Musculus levator labii superioris alaeque nasi, Left [Levator labii superioris alaeque nasi muscle, Left, T-13156-LFT]	MDC_MUSC_HEAD_LEVATOR_LAB_SUP_AL_NASI_L	329
Muscle Levator, Labii, Superioris, Alaeque, Nasi, Right Head, Facial Body	Musculus levator labii superioris alaeque nasi, Right [Levator labii superioris alaeque nasi muscle, Right, T-13156-RGT]	MDC_MUSC_HEAD_LEVATOR_LAB_SUP_AL_NASI_R	330
Muscle Depressor, Labii, Inferioris, NOS Head, Facial Body	Musculus depressor labii inferioris [Depressor labii inferioris muscle, T-13157]	MDC_MUSC_HEAD_DEPRESSOR_LAB_INF	332
Muscle Depressor, Labii, Inferioris, Left Head, Facial Body	Musculus depressor labii inferioris, Left [Depressor labii inferioris muscle, Left, T-13157-LFT]	MDC_MUSC_HEAD_DEPRESSOR_LAB_INF_L	333
Muscle Depressor, Labii, Inferioris, Right Head, Facial Body	Musculus depressor labii inferioris, Right [Depressor labii inferioris muscle, Right, T-13157-RGT]	MDC_MUSC_HEAD_DEPRESSOR_LAB_INF_R	334
Muscle Levator, Anguli, Oris, NOS Head, Facial Body	Musculus levator anguli oris [Levator anguli oris muscle, T-13158]	MDC_MUSC_HEAD_LEVATOR_ANGUL_ORIS	336
Muscle Levator, Anguli, Oris, Left Head, Facial Body	Musculus levator anguli oris, Left [Levator anguli oris muscle, Left, T-13158-LFT]	MDC_MUSC_HEAD_LEVATOR_ANGUL_ORIS_L	337
Muscle Levator, Anguli, Oris, Right Head, Facial Body	Musculus levator anguli oris, Right [Levator anguli oris muscle, Right, T-13158-RGT]	MDC_MUSC_HEAD_LEVATOR_ANGUL_ORIS_R	338
Muscle Buccinator, NOS Head Body	Musculus buccinator [Buccinator muscle, T-13159]	MDC_MUSC_HEAD_BUCCINATOR	340
Muscle Buccinator, Left Head Body	Musculus buccinator, Left [Buccinator muscle, Left, T-13159-LFT]	MDC_MUSC_HEAD_BUCCINATOR_L	341
Muscle Buccinator, Right Head Body	Musculus buccinator, Right [Buccinator muscle, Right, T-13159-RGT]	MDC_MUSC_HEAD_BUCCINATOR_R	342
Muscle Mentalis, NOS Head Body	Musculus mentalis [Mentalis muscle, T-13250]	MDC_MUSC_HEAD_MENTAL	344
Muscle Mentalis, Left Head Body	Musculus mentalis, Left [Mentalis muscle, Left, T-13250-LFT]	MDC_MUSC_HEAD_MENTAL_L	345
Muscle Mentalis, Right Head Body	Musculus mentalis, Right [Mentalis muscle, Right, T-13250-RGT]	MDC_MUSC_HEAD_MENTAL_R	346
Muscle Masseter, NOS Head Body	Musculus masseter [Masseter muscle, T-13260]	MDC_MUSC_HEAD_MASSETER	348
Muscle Masseter, Left Head Body	Musculus masseter, Left [Masseter muscle, Left, T-13260-LFT]	MDC_MUSC_HEAD_MASSETER_L	349

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles (continued)

Systematic name	Description/Definition	Reference ID	Code
Muscle Masseter, Right Head Body	Musculus masseter, Right [Masseter muscle, Right, T-13260-RGT]	MDC_MUSC_HEAD_MASSETER_R	350
Muscle Temporalis, NOS Head Body	Musculus temporalis [Temporal muscle, T-13270]	MDC_MUSC_HEAD_TEMPOR	352
Muscle Temporalis, Left Head Body	Musculus temporalis, Left [Temporal muscle, Left, T-13270-LFT]	MDC_MUSC_HEAD_TEMPOR_L	353
Muscle Temporalis, Right Head Body	Musculus temporalis, Right [Temporal muscle, Right, T-13270-RGT]	MDC_MUSC_HEAD_TEMPOR_R	354
Muscle Pterygoideus, NOS Head Body	Musculus Pterygoideus [Pterygoid muscle, NOS, T-13280]	MDC_MUSC_HEAD_PTERYGOID	356
Muscle Pterygoideus, Left Head Body	Musculus Pterygoideus, Left [Pterygoid muscle, Left, T-13280-LFT]	MDC_MUSC_HEAD_PTERYGOID_L	357
Muscle Pterygoideus, Right Head Body	Musculus Pterygoideus, Right [Pterygoid muscle, Right, T-13280-RGT]	MDC_MUSC_HEAD_PTERYGOID_R	358
Muscle Pterygoideus, Lateralis, NOS Head Body	Musculus Pterygoideus lateralis [Lateral pterygoid muscle, T-13281]	MDC_MUSC_HEAD_PTERYGOID_LAT	360
Muscle Pterygoideus, Lateralis, Left Head Body	Musculus Pterygoideus lateralis, Left [Lateral pterygoid muscle, Left, T-13281-LFT]	MDC_MUSC_HEAD_PTERYGOID_LAT_L	361
Muscle Pterygoideus, Lateralis, Right Head Body	Musculus Pterygoideus lateralis, Right [Lateral pterygoid muscle, Right, T-13281-RGT]	MDC_MUSC_HEAD_PTERYGOID_LAT_R	362
Muscle Pterygoideus, Medialis, NOS Head Body	Musculus Pterygoideus, medialis [Medial pterygoid muscle, T-13282]	MDC_MUSC_HEAD_PTERYGOID_MED	364
Muscle Pterygoideus, Medialis, Left Head Body	Musculus Pterygoideus, medialis, Left [Medial pterygoid muscle, Left, T-13282-LFT]	MDC_MUSC_HEAD_PTERYGOID_MED_L	365
Muscle Pterygoideus, Medialis, Right Head Body	Musculus Pterygoideus, medialis, Right [Medial pterygoid muscle, Right, T-13282-RGT]	MDC_MUSC_HEAD_PTERYGOID_MED_R	366
Muscle Linguae, NOS Head Body	MUSCULI LINGUAE [Intrinsic lingual muscle, NOS, T-13510]	MDC_MUSC_HEAD_LING	368
Muscle Linguae, Left Head Body	MUSCULI LINGUAE, Left [Intrinsic lingual muscle, NOS, Left, T-13510-LFT]	MDC_MUSC_HEAD_LING_L	369
Muscle Linguae, Right Head Body	MUSCULI LINGUAE, Right [Intrinsic lingual muscle, NOS, Right, T-13510-RGT]	MDC_MUSC_HEAD_LING_R	370
Muscle Genioglossus, NOS Head Body	Musculus genioglossus [Genioglossus muscle, T-13520]	MDC_MUSC_HEAD_GENIOGLOSS	372

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles *(continued)*

Systematic name	Description/Definition	Reference ID	Code
Muscle Genioglossus, Left Head Body	Musculus genioglossus, Left [Genioglossus muscle, Left, T-13520-LFT]	MDC_MUSC_HEAD_GENIOGLOSS_L	373
Muscle Genioglossus, Right Head Body	Musculus genioglossus, Right [Genioglossus muscle, Right, T-13520-RGT]	MDC_MUSC_HEAD_GENIOGLOSS_R	374
Muscle Laringis, NOS Head Body	MUSCULI LARINGIS [Laryngeal muscle, NOS, T-13490]	MDC_MUSC_HEAD_LARING	376
Muscle Laringis, Left Head Body	MUSCULI LARINGIS, Left [Laryngeal muscle, NOS, Left, T-13490-LFT]	MDC_MUSC_HEAD_LARING_L	377
Muscle Laringis, Right Head Body	MUSCULI LARINGIS, Right [Laryngeal muscle, NOS, Right, T-13490-RGT]	MDC_MUSC_HEAD_LARING_R	378
Muscle Cricothyroideus, NOS Head Body	Musculus cricothyroideus [Cricothyroid muscle, T-13492]	MDC_MUSC_HEAD_CRICOTHYROID	380
Muscle Cricothyroideus, Left Head Body	Musculus cricothyroideus, Left [Cricothyroid muscle, Left, T-13492-LFT]	MDC_MUSC_HEAD_CRICOTHYROID_L	381
Muscle Cricothyroideus, Right Head Body	Musculus cricothyroideus, Right [Cricothyroid muscle, Right, T-13492-RGT]	MDC_MUSC_HEAD_CRICOTHYROID_R	382
Muscle Thyroarytenoideus, NOS Head Body	Musculus thyroarytenoideus [Thyroarytenoid muscle, T-13497]	MDC_MUSC_HEAD_THYROARYTEROID	384
Muscle Thyroarytenoideus, Left Head Body	Musculus thyroarytenoideus, Left [Thyroarytenoid muscle, Left, T-13497-LFT]	MDC_MUSC_HEAD_THYROARYTEROID_L	385
Muscle Thyroarytenoideus, Right Head Body	Musculus thyroarytenoideus, Right [Thyroarytenoid muscle, Right, T-13497-RGT]	MDC_MUSC_HEAD_THYROARYTEROID_R	386
Muscle NOS Neck Body	MUSCULI COLLI [Muscle of neck, NOS, T-13300]	MDC_MUSC_NECK	388
Muscle Left Neck Body	MUSCULI COLLI, Left [Muscle of neck, NOS, Left, T-13300-LFT]	MDC_MUSC_NECK_L	389
Muscle Right Neck Body	MUSCULI COLLI, Right [Muscle of neck, NOS, Right, T-13300-RGT]	MDC_MUSC_NECK_R	390
Muscle Platysma, NOS Neck Body	Platysma [Platysma muscle, T-13480]	MDC_MUSC_NECK_PLATYSMA	392
Muscle Platysma, Left Neck Body	Platysma, Left [Platysma muscle, Left, T-13480-LFT]	MDC_MUSC_NECK_PLATYSMA_L	393
Muscle Platysma, Right Neck Body	Platysma, Right [Platysma muscle, Right, T-13480-RGT]	MDC_MUSC_NECK_PLATYSMA_R	394
Muscle Longus, Capitis, NOS Neck Body	Musculus capitis longus [Longus capitis muscle, T-13130]	MDC_MUSC_NECK_CAPT_LONG	396

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles *(continued)*

Systematic name	Description/Definition	Reference ID	Code
Muscle Longus, Capitis, Left Neck Body	Musculus capitis longus, Left [Longus capitis muscle, Left, T-13130-LFT]	MDC_MUSC_NECK_CAPT_LONG_L	397
Muscle Longus, Capitis, Right Neck Body	Musculus capitis longus, Right [Longus capitis muscle, Right, T-13130-RGT]	MDC_MUSC_NECK_CAPT_LONG_R	398
Muscle Sternocleidomastoideus, NOS Neck Body	Musculus Sternocleidomastoideus [Sternocleidomastoid muscle, T-13310]	MDC_MUSC_NECK_STERNOCLÉIDOMASTOID	400
Muscle Sternocleidomastoideus, Left Neck Body	Musculus Sternocleidomastoideus, Left [Sternocleidomastoid muscle, Left, T-13310-LFT]	MDC_MUSC_NECK_STERNOCLÉIDOMASTOID_L	401
Muscle Sternocleidomastoideus, Right Neck Body	Musculus Sternocleidomastoideus, Right [Sternocleidomastoid muscle, Right, T-13310-RGT]	MDC_MUSC_NECK_STERNOCLÉIDOMASTOID_R	402
Muscle Digastricus, NOS Neck Body	Musculus digastricus [Digastric muscle, T-13330]	MDC_MUSC_NECK_DIGRASTRIC	404
Muscle Digastricus, Left Neck Body	Musculus digastricus, Left [Digastric muscle, Left, T-13330-LFT]	MDC_MUSC_NECK_DIGRASTRIC_L	405
Muscle Digastricus, Right Neck Body	Musculus digastricus, Right [Digastric muscle, Right, T-13330-RGT]	MDC_MUSC_NECK_DIGRASTRIC_R	406
Muscle Digastricus, Venter, Anterior, NOS Neck Body	Musculus digastricus, Venter anterior [Digastric muscle, anterior belly, T-13331]	MDC_MUSC_NECK_DIGRASTRIC_VENTER_ANT	408
Muscle Digastricus, Venter, Anterior, Left Neck Body	Musculus digastricus, Venter anterior, Left [Digastric muscle, anterior belly, Left, T-13331-LFT]	MDC_MUSC_NECK_DIGRASTRIC_VENTER_ANT_L	409
Muscle Digastricus, Venter, Anterior, Right Neck Body	Musculus digastricus, Venter anterior, Right [Digastric muscle, anterior belly, Right, T-13331-RGT]	MDC_MUSC_NECK_DIGRASTRIC_VENTER_ANT_R	410
Muscle Digastricus, Venter, Posterior, NOS Neck Body	Musculus digastricus, Venter posterior [Digastric muscle, posterior belly, T-13332]	MDC_MUSC_NECK_DIGRASTRIC_VENTER_POST	412
Muscle Digastricus, Venter, Posterior, Left Neck Body	Musculus digastricus, Venter posterior, Left [Digastric muscle, posterior belly, Left, T-13332-LFT]	MDC_MUSC_NECK_DIGRASTRIC_VENTER_POST_L	413
Muscle Digastricus, Venter, Posterior, Right Neck Body	Musculus digastricus, Venter posterior, Right [Digastric muscle, posterior belly, Right, T-13332-RGT]	MDC_MUSC_NECK_DIGRASTRIC_VENTER_POST_R	414
Muscle Mylohyoideus, NOS Neck Body	Musculus mylohyoideus [Mylohyoid muscle, T-13350, (submental EMG)]	MDC_MUSC_NECK_MYLOHYOID	416

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles *(continued)*

Systematic name	Description/Definition	Reference ID	Code
Muscle Mylohyoideus, Left Neck Body	Musculus mylohyoideus, Left [Mylohyoid muscle, Left, T-13350-LFT, (submental EMG)]	MDC_MUSC_NECK_MYLOHYOID_L	417
Muscle Mylohyoideus, Right Neck Body	Musculus mylohyoideus, Right [Mylohyoid muscle, Right, T-13350-RGT, (submental EMG)]	MDC_MUSC_NECK_MYLOHYOID_R	418
Muscle NOS Trunk Body	[Muscle of trunk, NOS, T-14000]	MDC_MUSC_TRUNK	420
Muscle Left Trunk Body	[Muscle of trunk, NOS, Left, T-14000-LFT]	MDC_MUSC_TRUNK_L	421
Muscle Right Trunk Body	[Muscle of trunk, NOS, Right, T-14000-RGT]	MDC_MUSC_TRUNK_R	422
Muscle NOS Back Body	MUSCULI DORSI [Muscle of back, NOS, T-14090]	MDC_MUSC_BACK	424
Muscle Left Back Body	MUSCULI DORSI, Left [Muscle of back, NOS, Left, T-14090-LFT]	MDC_MUSC_BACK_L	425
Muscle Right Back Body	MUSCULI DORSI, Right [Muscle of back, NOS, Right, T-14090-RGT]	MDC_MUSC_BACK_R	426
Muscle UpperBack, NOS Back Body	[Muscle of upper back, NOS, T-14170]	MDC_MUSC_BACK_UPPER	428
Muscle UpperBack, Left Back Body	[Muscle of upper back, NOS, Left, T-14170-LFT]	MDC_MUSC_BACK_UPPER_L	429
Muscle UpperBack, Right Back Body	[Muscle of upper back, NOS, Right, T-14170-RGT]	MDC_MUSC_BACK_UPPER_R	430
Muscle LowerBack, NOS Back Body	[Muscle of lower back, NOS, T-14091]	MDC_MUSC_BACK_LOWER	432
Muscle LowerBack, Left Back Body	[Muscle of lower back, NOS, Left, T-14091-LFT]	MDC_MUSC_BACK_LOWER_L	433
Muscle LowerBack, Right Back Body	[Muscle of lower back, NOS, Right, T-14091-RGT]	MDC_MUSC_BACK_LOWER_R	434
Muscle Trapezius, NOS Back Body	Musculus trapezius [Trapezius muscle, T-14171]	MDC_MUSC_BACK_TRAPEZ	436
Muscle Trapezius, Left Back Body	Musculus trapezius, Left [Trapezius muscle, Left, T-14171-LFT]	MDC_MUSC_BACK_TRAPEZ_L	437
Muscle Trapezius, Right Back Body	Musculus trapezius, Right [Trapezius muscle, Right, T-14171-RGT]	MDC_MUSC_BACK_TRAPEZ_R	438
Muscle Latissimus, Dorsi, NOS Back Body	Musculus latissimus dorsi [Latissimus dorsi muscle, T-14172]	MDC_MUSC_BACK_LASTISSIM_DORS	440
Muscle Latissimus, Dorsi, Left Back Body	Musculus latissimus dorsi, Left [Latissimus dorsi muscle, Left, T-14172-LFT]	MDC_MUSC_BACK_LASTISSIM_DORS_L	441

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles *(continued)*

Systematic name	Description/Definition	Reference ID	Code
Muscle Latissimus, Dorsi, Right Back Body	Musculus latissimus dorsi, Right [Latissimus dorsi muscle, Right, T-14172-RGT]	MDC_MUSC_BACK_LASTISSIM_DORS_R	442
Muscle Rhomboideus, Major, NOS Back Body	Musculus rhomboideus major [Rhomboid major muscle, T-14173]	MDC_MUSC_BACK_RHOMB_MAJOR	444
Muscle Rhomboideus, Major, Left Back Body	Musculus rhomboideus major, Left [Rhomboid major muscle, Left, T-14173-LFT]	MDC_MUSC_BACK_RHOMB_MAJOR_L	445
Muscle Rhomboideus, Major, Right Back Body	Musculus rhomboideus major, Right [Rhomboid major muscle, Right, T-14173-RGT]	MDC_MUSC_BACK_RHOMB_MAJOR_R	446
Muscle Rhomboideus, Minor, NOS Back Body	Musculus rhomboideus minor [Rhomboid minor muscle, T-14174]	MDC_MUSC_BACK_RHOMB_MINOR	448
Muscle Rhomboideus, Minor, Left Back Body	Musculus rhomboideus minor, Left [Rhomboid minor muscle, Left, T-14174-LFT]	MDC_MUSC_BACK_RHOMB_MINOR_L	449
Muscle Rhomboideus, Minor, Right Back Body	Musculus rhomboideus minor, Right [Rhomboid minor muscle, Right, T-14174-RGT]	MDC_MUSC_BACK_RHOMB_MINOR_R	450
Muscle Levator, Scapulae, NOS Back Body	Musculus levator scapulae [Levator scapulae muscle, T-14180]	MDC_MUSC_BACK_SCAP_LEVATOR	452
Muscle Levator, Scapulae, Left Back Body	Musculus levator scapulae, Left [Levator scapulae muscle, Left, T-14180-LFT]	MDC_MUSC_BACK_SCAP_LEVATOR_L	453
Muscle Levator, Scapulae, Right Back Body	Musculus levator scapulae, Right [Levator scapulae muscle, Right, T-14180-RGT]	MDC_MUSC_BACK_SCAP_LEVATOR_R	454
Muscle Serratus, Posterior, NOS Back Body	Musculus serratus posterior [Serratus posterior muscle, T-14190]	MDC_MUSC_BACK_SERRAT_POST	456
Muscle Serratus, Posterior, Left Back Body	Musculus serratus posterior, Left [Serratus posterior muscle, Left, T-14190-LFT]	MDC_MUSC_BACK_SERRAT_POST_L	457
Muscle Serratus, Posterior, Right Back Body	Musculus serratus posterior, Right [Serratus posterior muscle, Right, T-14190-RGT]	MDC_MUSC_BACK_SERRAT_POST_R	458
Muscle Splenius, Capitis, NOS Back Body	Musculus splenius capitis [Splenius capitis muscle, T-13101]	MDC_MUSC_BACK_SPLEN_CAPT	460

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles (continued)

Systematic name	Description/Definition	Reference ID	Code
Muscle Splenius, Capitis, Left Back Body	Musculus splenius capitis, Left [Splenius capitis muscle, Left, T-13101-LFT]	MDC_MUSC_BACK_SPLEN_CAPT_L	461
Muscle Splenius, Capitis, Right Back Body	Musculus splenius capitis, Right [Splenius capitis muscle, Right, T-13101-RGT]	MDC_MUSC_BACK_SPLEN_CAPT_R	462
Muscle Splenius, Cervicis, NOS Back Body	Musculus splenius cervicis [Splenius cervicis muscle, T-13301]	MDC_MUSC_BACK_SPLEN_CERVIC	464
Muscle Splenius, Cervicis, Left Back Body	Musculus splenius cervicis, Left [Splenius cervicis muscle, Left, T-13301-LFT]	MDC_MUSC_BACK_SPLEN_CERVIC_L	465
Muscle Splenius, Cervicis, Right Back Body	Musculus splenius cervicis, Right [Splenius cervicis muscle, Right, T-13301-RGT]	MDC_MUSC_BACK_SPLEN_CERVIC_R	466
Muscle Splenius, NOS Back Body	[Splenius muscle of trunk, T-14010]	MDC_MUSC_BACK_SPLEN	468
Muscle Splenius, Left Back Body	[Splenius muscle of trunk, Left, T-14010-LFT]	MDC_MUSC_BACK_SPLEN_L	469
Muscle Splenius, Right Back Body	[Splenius muscle of trunk, Right, T-14010-RGT]	MDC_MUSC_BACK_SPLEN_R	470
Muscle Erector, Spinae, NOS Back Body	MUSCULUS ERECTOR SPINAE [Erector spinae muscle, T-14020]	MDC_MUSC_BACK_SPINAL_ERECTOR	472
Muscle Erector, Spinae, Left Back Body	MUSCULUS ERECTOR SPINAE, Left [Erector spinae muscle, Left, T-14020-LFT]	MDC_MUSC_BACK_SPINAL_ERECTOR_L	473
Muscle Erector, Spinae, Right Back Body	MUSCULUS ERECTOR SPINAE, Right [Erector spinae muscle, Right, T-14020-RGT]	MDC_MUSC_BACK_SPINAL_ERECTOR_R	474
Muscle Spinalis, NOS Back Body	Musculus spinalis [Spinalis muscle, T-14050]	MDC_MUSC_BACK_SPINAL	476
Muscle Spinalis, Left Back Body	Musculus spinalis, Left [Spinalis muscle, Left, T-14050-LFT]	MDC_MUSC_BACK_SPINAL_L	477
Muscle Spinalis, Right Back Body	Musculus spinalis, Right [Spinalis muscle, Right, T-14050-RGT]	MDC_MUSC_BACK_SPINAL_R	478
Muscle Spinalis, Thoracis, NOS Back Body	Musculus spinalis thoracis [Spinalis thoracis muscle, T-14051]	MDC_MUSC_BACK_SPINAL_THORAC	480
Muscle Spinalis, Thoracis, Left Back Body	Musculus spinalis thoracis, Left [Spinalis thoracis muscle, Left, T-14051-LFT]	MDC_MUSC_BACK_SPINAL_THORAC_L	481
Muscle Spinalis, Thoracis, Right Back Body	Musculus spinalis thoracis, Right [Spinalis thoracis muscle, Right, T-14051-RGT]	MDC_MUSC_BACK_SPINAL_THORAC_R	482

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles (continued)

Systematic name	Description/Definition	Reference ID	Code
Muscle Spinalis, Cervicis, NOS Back Body	Musculus spinalis cervicis [Spinalis cervicis muscle, T-14052]	MDC_MUSC_BACK_SPINAL_CERVIC	484
Muscle Spinalis, Cervicis, Left Back Body	Musculus spinalis cervicis, Left [Spinalis cervicis muscle, Left, T-14052-LFT]	MDC_MUSC_BACK_SPINAL_CERVIC_L	485
Muscle Spinalis, Cervicis, Right Back Body	Musculus spinalis cervicis, Right [Spinalis cervicis muscle, Right, T-14052-RGT]	MDC_MUSC_BACK_SPINAL_CERVIC_R	486
Muscle Spinalis, Capitis, NOS Back Body	Musculus spinalis capitis [Spinalis capitis muscle, T-14053]	MDC_MUSC_BACK_SPINAL_CAPIT	488
Muscle Spinalis, Capitis, Left Back Body	Musculus spinalis capitis, Left [Spinalis capitis muscle, Left, T-14053-LFT]	MDC_MUSC_BACK_SPINAL_CAPIT_L	489
Muscle Spinalis, Capitis, Right Back Body	Musculus spinalis capitis, Right [Spinalis capitis muscle, Right, T-14053-RGT]	MDC_MUSC_BACK_SPINAL_CAPIT_R	490
Muscle Semispinalis, NOS Back Body	Musculus semispinalis [Semispinalis muscle, NOS, T-14061]	MDC_MUSC_BACK_SEMISPINAL	492
Muscle Semispinalis, Left Back Body	Musculus semispinalis, Left [Semispinalis muscle, NOS, Left, T-14061-LFT]	MDC_MUSC_BACK_SEMISPINAL_L	493
Muscle Semispinalis, Right Back Body	Musculus semispinalis, Right [Semispinalis muscle, NOS, Right, T-14061-RGT]	MDC_MUSC_BACK_SEMISPINAL_R	494
Muscle Semispinalis, Thoracis, NOS Back Body	Musculus semispinalis thoracis [Semispinalis thoracis muscle, T-14062]	MDC_MUSC_BACK_SEMISPINAL_THOR	496
Muscle Semispinalis, Thoracis, Left Back Body	Musculus semispinalis thoracis, Left [Semispinalis thoracis muscle, Left, T-14062-LFT]	MDC_MUSC_BACK_SEMISPINAL_THOR_L	497
Muscle Semispinalis, Thoracis, Right Back Body	Musculus semispinalis thoracis, Right [Semispinalis thoracis muscle, Right, T-14062-RGT]	MDC_MUSC_BACK_SEMISPINAL_THOR_R	498
Muscle Semispinalis, Cervicis, NOS Back Body	Musculus semispinalis cervicis [Semispinalis cervicis muscle, T-14063]	MDC_MUSC_BACK_SEMISPINAL_CERV	500
Muscle Semispinalis, Cervicis, Left Back Body	Musculus semispinalis cervicis, Left [Semispinalis cervicis muscle, Left, T-14063-LFT]	MDC_MUSC_BACK_SEMISPINAL_CERV_L	501
Muscle Semispinalis, Cervicis, Right Back Body	Musculus semispinalis cervicis, Right [Semispinalis cervicis muscle, Right, T-14063-RGT]	MDC_MUSC_BACK_SEMISPINAL_CERV_R	502

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles (continued)

Systematic name	Description/Definition	Reference ID	Code
Muscle Semispinalis, Capitis, NOS Back Body	Musculus semispinalis capitis [Semispinalis capitis muscle, T-14064]	MDC_MUSC_BACK_SEMISPINAL_CAPIT	504
Muscle Semispinalis, Capitis, Left Back Body	Musculus semispinalis capitis, Left [Semispinalis capitis muscle, Left, T-14064-LFT]	MDC_MUSC_BACK_SEMISPINAL_CAPIT_L	505
Muscle Semispinalis, Capitis, Right Back Body	Musculus semispinalis capitis, Right [Semispinalis capitis muscle, Right, T-14064-RGT]	MDC_MUSC_BACK_SEMISPINAL_CAPIT_R	506
Muscle Multifidi, NOS Back Body	Musculi multifidii [Multifidus muscle, T-14065]	MDC_MUSC_BACK_MULTIFID	508
Muscle Multifidi, Left Back Body	Musculi multifidii, Left [Multifidus muscle, Left, T-14065-LFT]	MDC_MUSC_BACK_MULTIFID_L	509
Muscle Multifidi, Right Back Body	Musculi multifidii, Right [Multifidus muscle, Right, T-14065-RGT]	MDC_MUSC_BACK_MULTIFID_R	510
Muscle Interspinales, NOS Back Body	MUSCULI INTERSPINALES [Interspinalis muscles, NOS, T-14070]	MDC_MUSC_BACK_INTERSPINAL	512
Muscle Interspinales, Left Back Body	MUSCULI INTERSPINALES, Left [Interspinalis muscles, NOS, Left, T-14070-LFT]	MDC_MUSC_BACK_INTERSPINAL_L	513
Muscle Interspinales, Right Back Body	MUSCULI INTERSPINALES, Right [Interspinalis muscles, NOS, Right, T-14070-RGT]	MDC_MUSC_BACK_INTERSPINAL_R	514
Muscle Interspinales, Cervicis, NOS Back Body	Musculi interspinales cervicis [Interspinalis cervicis muscle, T-14071]	MDC_MUSC_BACK_INTERSPINAL_CERVIC	516
Muscle Interspinales, Cervicis, Left Back Body	Musculi interspinales cervicis, Left [Interspinalis cervicis muscle, Left, T-14071-LFT]	MDC_MUSC_BACK_INTERSPINAL_CERVIC_L	517
Muscle Interspinales, Cervicis, Right Back Body	Musculi interspinales cervicis, Right [Interspinalis cervicis muscle, Right, T-14071-RGT]	MDC_MUSC_BACK_INTERSPINAL_CERVIC_R	518
Muscle Interspinalis, Thoracis, NOS Back Body	Musculi interspinales thoracis [Interspinalis thoracis muscle, T-14072]	MDC_MUSC_BACK_INTERSPINAL_THORAC	520
Muscle Interspinalis, Thoracis, Left Back Body	Musculi interspinales thoracis, Left [Interspinalis thoracis muscle, Left, T-14072-LFT]	MDC_MUSC_BACK_INTERSPINAL_THORAC_L	521
Muscle Interspinalis, Thoracis, Right Back Body	Musculi interspinales thoracis, Right [Interspinalis thoracis muscle, Right, T-14072-RGT]	MDC_MUSC_BACK_INTERSPINAL_THORAC_R	522
Muscle Interspinales, Lumborum, NOS Back Body	Musculi interspinales lumborum [Interspinalis lumborum muscle, T-14073]	MDC_MUSC_BACK_INTERSPINAL_LUMBOR	524

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles (continued)

Systematic name	Description/Definition	Reference ID	Code
Muscle Interspinales, Lumborum, Left Back Body	Musculi interspinales lumborum, Left [Interspinalis lumborum muscle, Left, T-14073-LFT]	MDC_MUSC_BACK_INTERSPINAL_LUMBOR_L	525
Muscle Interspinales, Lumborum, Right Back Body	Musculi interspinales lumborum, Right [Interspinalis lumborum muscle, Right, T-14073-RGT]	MDC_MUSC_BACK_INTERSPINAL_LUMBOR_R	526
Muscle NOS Thorax Body	MUSCULI THORACIS [Muscle of thorax, NOS, T-14100]	MDC_MUSC_THORAX	528
Muscle Left Thorax Body	MUSCULI THORACIS, Left [Muscle of thorax, NOS, Left, T-14100-LFT]	MDC_MUSC_THORAX_L	529
Muscle Right Thorax Body	MUSCULI THORACIS, Right [Muscle of thorax, NOS, Right, T-14100-RGT]	MDC_MUSC_THORAX_R	530
Muscle Pectoralis, Major, NOS Thorax Body	Musculus pectoralis major [Pectoralis major muscle, NOS, T-14110]	MDC_MUSC_THORAX_PECTORAL_MAJOR	532
Muscle Pectoralis, Major, Left Thorax Body	Musculus pectoralis major, Left [Pectoralis major muscle, Left, NOS, T-14110-LFT]	MDC_MUSC_THORAX_PECTORAL_MAJOR_L	533
Muscle Pectoralis, Major, Right Thorax Body	Musculus pectoralis major, Right [Pectoralis major muscle, Right, NOS, T-14110-RGT]	MDC_MUSC_THORAX_PECTORAL_MAJOR_R	534
Muscle Pectoralis, Minor, NOS Thorax Body	Musculus pectoralis minor [Pectoralis minor muscle, T-14120]	MDC_MUSC_THORAX_PECTORAL_MINOR	536
Muscle Pectoralis, Minor, Left Thorax Body	Musculus pectoralis minor, Left [Pectoralis minor muscle, Left, T-14120-LFT]	MDC_MUSC_THORAX_PECTORAL_MINOR_L	537
Muscle Pectoralis, Minor, Right Thorax Body	Musculus pectoralis minor, Right [Pectoralis minor muscle, Right, T-14120-RGT]	MDC_MUSC_THORAX_PECTORAL_MINOR_R	538
Muscle Subclavius, NOS Thorax Body	Musculus subclavius [Subclavius muscle, T-14130]	MDC_MUSC_THORAX_SUBCLAV	540
Muscle Subclavius, Left Thorax Body	Musculus subclavius, Left [Subclavius muscle, Left, T-14130-LFT]	MDC_MUSC_THORAX_SUBCLAV_L	541
Muscle Subclavius, Right Thorax Body	Musculus subclavius, Right [Subclavius muscle, Right, T-14130-RGT]	MDC_MUSC_THORAX_SUBCLAV_R	542
Muscle Serratus, Anterior, NOS Thorax Body	Musculus serratus anterior [Serratus anterior muscle, T-14140]	MDC_MUSC_THORAX_SERRAT_ANT	544

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles (continued)

Systematic name	Description/Definition	Reference ID	Code
Muscle Serratus, Anterior, Left Thorax Body	Musculus serratus anterior, Left [Serratus anterior muscle, Left, T-14140-LFT]	MDC_MUSC_THORAX_SERRAT_ANT_L	545
Muscle Serratus, Anterior, Right Thorax Body	Musculus serratus anterior, Right [Serratus anterior muscle, Right, T-14140-RGT]	MDC_MUSC_THORAX_SERRAT_ANT_R	546
Muscle Intercostales, NOS Thorax Body	Musculi intercostales [Intercostal muscle, NOS, T-14160]	MDC_MUSC_THORAX_INTERCOSTAL	548
Muscle Intercostales, Left Thorax Body	Musculi intercostales, Left [Intercostal muscle, NOS, Left, T-14160-LFT]	MDC_MUSC_THORAX_INTERCOSTAL_L	549
Muscle Intercostales, Right Thorax Body	Musculi intercostales, Right [Intercostal muscle, NOS, Right, T-14160-RGT]	MDC_MUSC_THORAX_INTERCOSTAL_R	550
Muscle NOS Thorax, Diaphragm Body	DIAPHRAGMA [Diaphragm, NOS, T-Y2400]	MDC_MUSC_THORAX_DIAPHRAGM	552
Muscle Left Thorax, Diaphragm Body	DIAPHRAGMA, Left [Diaphragm, NOS, Left, T-Y2400-LFT]	MDC_MUSC_THORAX_DIAPHRAGM_L	553
Muscle Right Thorax, Diaphragm Body	DIAPHRAGMA, Right [Diaphragm, NOS, Right, T-Y2400-RGT]	MDC_MUSC_THORAX_DIAPHRAGM_R	554
Muscle NOS Abdomen Body	MUSCULI ABDOMINIS [Muscle of abdomen, NOS, T-14200]	MDC_MUSC_ABDOM	556
Muscle Left Abdomen Body	MUSCULI ABDOMINIS, Left [Muscle of abdomen, NOS, Left, T-14200-LFT]	MDC_MUSC_ABDOM_L	557
Muscle Right Abdomen Body	MUSCULI ABDOMINIS, Right [Muscle of abdomen, NOS, Right, T-14200-RGT]	MDC_MUSC_ABDOM_R	558
Muscle Rectus, Abdominis, NOS Abdomen Body	Musculus rectus abdominis [Rectus abdominis muscle, T-14260]	MDC_MUSC_ABDOM_ABDOMIN	560
Muscle Rectus, Abdominis, Left Abdomen Body	Musculus rectus abdominis, Left [Rectus abdominis muscle, Left, T-14260-LFT]	MDC_MUSC_ABDOM_ABDOMIN_L	561
Muscle Rectus, Abdominis, Right Abdomen Body	Musculus rectus abdominis, Right [Rectus abdominis muscle, Right, T-14260-RGT]	MDC_MUSC_ABDOM_ABDOMIN_R	562
Muscle Obliquus, Externus, Abdominis, NOS Abdomen Body	Musculus obliquus externus abdominis [Obliquus externus abdominis muscle, T-14220]	MDC_MUSC_ABDOM_OBLIQ_EXT	564
Muscle Obliquus, Externus, Abdominis, Left Abdomen Body	Musculus obliquus externus abdominis, Left [Obliquus externus abdominis muscle, Left, T-14220-LFT]	MDC_MUSC_ABDOM_OBLIQ_EXT_L	565

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles (continued)

Systematic name	Description/Definition	Reference ID	Code
Muscle Obliquus, Externus, Abdominis, Right Abdomen Body	Musculus obliquus externus abdominis, Right [Obliquus externus abdominis muscle, Right, T-14220-RGT]	MDC_MUSC_ABDOM_OBLIQ_EXT_R	566
Muscle Obliquus, Internus, Abdominis, NOS Abdomen Body	Musculus obliquus internus abdominis [Obliquus internus abdominis muscle, T-14230]	MDC_MUSC_ABDOM_OBLIQ_INT	568
Muscle Obliquus, Internus, Abdominis, Left Abdomen Body	Musculus obliquus internus abdominis, Left [Obliquus internus abdominis muscle, Left, T-14230-LFT]	MDC_MUSC_ABDOM_OBLIQ_INT_L	569
Muscle Obliquus, Internus, Abdominis, Right Abdomen Body	Musculus obliquus internus abdominis, Right [Obliquus internus abdominis muscle, Right, T-14230-RGT]	MDC_MUSC_ABDOM_OBLIQ_INT_R	570
Muscle Transversus, Abdominis, NOS Abdomen Body	Musculus transversus abdominis [Transversus abdominis muscle, T-14250]	MDC_MUSC_ABDOM_ABDOM_TRANSVERS	572
Muscle Transversus, Abdominis, Left Abdomen Body	Musculus transversus abdominis, Left [Transversus abdominis muscle, Left, T-14250-LFT]	MDC_MUSC_ABDOM_ABDOM_TRANSVERS_L	573
Muscle Transversus, Abdominis, Right Abdomen Body	Musculus transversus abdominis, Right [Transversus abdominis muscle, Right, T-14250-RGT]	MDC_MUSC_ABDOM_ABDOM_TRANSVERS_R	574
Muscle Quadratus, Lumborum, NOS Abdomen Body	Musculus quadratus lumborum [Quadratus lumborum muscle, T-14270]	MDC_MUSC_ABDOM_LUMBOR_QUADRAT	576
Muscle Quadratus, Lumborum, Left Abdomen Body	Musculus quadratus lumborum, Left [Quadratus lumborum muscle, Left, T-14270-LFT]	MDC_MUSC_ABDOM_LUMBOR_QUADRAT_L	577
Muscle Quadratus, Lumborum, Right Abdomen Body	Musculus quadratus lumborum, Right [Quadratus lumborum muscle, Right, T-14270-RGT]	MDC_MUSC_ABDOM_LUMBOR_QUADRAT_R	578
Muscle NOS Abdomen, Pelvis Body	MUSCULI DIAPHRAGMATIS PELVIS [Muscle of perineum, NOS, T-14300]	MDC_MUSC_ABDOM_PELV	580
Muscle Left Abdomen, Pelvis Body	MUSCULI DIAPHRAGMATIS PELVIS, Left [Muscle of perineum, NOS, Left, T-14300-LFT]	MDC_MUSC_ABDOM_PELV_L	581
Muscle Right Abdomen, Pelvis Body	MUSCULI DIAPHRAGMATIS PELVIS, Right [Muscle of perineum, NOS, Right, T-14300-RGT]	MDC_MUSC_ABDOM_PELV_R	582
Muscle Puborectalis, NOS Abdomen Body	Musculus puborectalis [Puborectalis muscle, T-14313]	MDC_MUSC_ABDOM_PUBORECT	584

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles (continued)

Systematic name	Description/Definition	Reference ID	Code
Muscle Puborectalis, Left Abdomen Body	Musculus puborectalis, Left [Puborectalis muscle, Left, T-14313-LFT]	MDC_MUSC_ABDOM_PUBORECT_L	585
Muscle Puborectalis, Right Abdomen Body	Musculus puborectalis, Right [Puborectalis muscle, Right, T-14313-RGT]	MDC_MUSC_ABDOM_PUBORECT_R	586
Muscle Coccygeus, NOS Abdomen Body	Musculus coccygeus [Coccygeus muscle, T-14320]	MDC_MUSC_ABDOM_COCCYG	588
Muscle Coccygeus, Left Abdomen Body	Musculus coccygeus, Left [Coccygeus muscle, Left, T-14320-LFT]	MDC_MUSC_ABDOM_COCCYG_L	589
Muscle Coccygeus, Right Abdomen Body	Musculus coccygeus, Right [Coccygeus muscle, Right, T-14320-RGT]	MDC_MUSC_ABDOM_COCCYG_R	590
Muscle Sphincter, Ani Abdomen Body	Musculus sphincter ani [Sphincter ani muscle, NOS, T-14330]	MDC_MUSC_ABDOM_ANI_SPHINCTER	592
Muscle Sphincter, Ani, Externus Abdomen Body	Musculus sphincter ani externus [Sphincter ani externus muscle, T-14332]	MDC_MUSC_ABDOM_ANI_SPHINCTER_EXT	596
Muscle NOS UpperExtremity Body	MUSCULI MEMBRI SUPERIORIS [Muscle of upper extremity, NOS, T-13600]	MDC_MUSC_UPEXT	600
Muscle Left UpperExtremity Body	MUSCULI MEMBRI SUPERIORIS, Left [Muscle of upper extremity, NOS, Left, T-13600-LFT]	MDC_MUSC_UPEXT_L	601
Muscle Right UpperExtremity Body	MUSCULI MEMBRI SUPERIORIS, Right [Muscle of upper extremity, NOS, Right, T-13600-RGT]	MDC_MUSC_UPEXT_R	602
Muscle Deltoideus, NOS UpperExtremity Body	Musculus deltoideus [Deltoid muscle, T-13660]	MDC_MUSC_UPEXT_DELTOID	604
Muscle Deltoideus, Left UpperExtremity Body	Musculus deltoideus, Left [Deltoid muscle, Left, T-13660-LFT]	MDC_MUSC_UPEXT_DELTOID_L	605
Muscle Deltoideus, Right UpperExtremity Body	Musculus deltoideus, Right [Deltoid muscle, Right, T-13660-RGT]	MDC_MUSC_UPEXT_DELTOID_R	606
Muscle Supraspinatus, NOS UpperExtremity Body	Musculus supraspinatus [Supraspinatus muscle, T-13610]	MDC_MUSC_UPEXT_SUPRASPINAT	608
Muscle Supraspinatus, Left UpperExtremity Body	Musculus supraspinatus, Left [Supraspinatus muscle, Left, T-13610-LFT]	MDC_MUSC_UPEXT_SUPRASPINAT_L	609

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles (continued)

Systematic name	Description/Definition	Reference ID	Code
Muscle Supraspinatus, Right UpperExtremity Body	Musculus supraspinatus, Right [Supraspinatus muscle, Right, T-13610-RGT]	MDC_MUSC_UPEXT_SUPRASPINAT_R	610
Muscle Infraspinatus, NOS UpperExtremity Body	Musculus infraspinatus [Infraspinatus muscle, T-13620]	MDC_MUSC_UPEXT_INFRAASPINAT	612
Muscle Infraspinatus, Left UpperExtremity Body	Musculus infraspinatus, Left [Infraspinatus muscle, Left, T-13620-LFT]	MDC_MUSC_UPEXT_INFRAASPINAT_L	613
Muscle Infraspinatus, Right UpperExtremity Body	Musculus infraspinatus, Right [Infraspinatus muscle, Right, T-13620-RGT]	MDC_MUSC_UPEXT_INFRAASPINAT_R	614
Muscle Teres, Minor, NOS UpperExtremity Body	Musculus teres minor [Teres minor muscle, T-13630]	MDC_MUSC_UPEXT_TERES_MINOR	616
Muscle Teres, Minor, Left UpperExtremity Body	Musculus teres minor, Left [Teres minor muscle, Left, T-13630-LFT]	MDC_MUSC_UPEXT_TERES_MINOR_L	617
Muscle Teres, Minor, Right UpperExtremity Body	Musculus teres minor, Right [Teres minor muscle, Right, T-13630-RGT]	MDC_MUSC_UPEXT_TERES_MINOR_R	618
Muscle Teres, Major, NOS UpperExtremity Body	Musculus teres major [Teres major muscle, T-13640]	MDC_MUSC_UPEXT_TERES_MAJOR	620
Muscle Teres, Major, Left UpperExtremity Body	Musculus teres major, Left [Teres major muscle, Left, T-13640-LFT]	MDC_MUSC_UPEXT_TERES_MAJOR_L	621
Muscle Teres, Major, Right UpperExtremity Body	Musculus teres major, Right [Teres major muscle, Right, T-13640-RGT]	MDC_MUSC_UPEXT_TERES_MAJOR_R	622
Muscle Subscapularis, NOS UpperExtremity Body	Musculus subscapularis [Subscapularis muscle, T-13650]	MDC_MUSC_UPEXT_SUBSCAP	624
Muscle Subscapularis, Left UpperExtremity Body	Musculus subscapularis, Left [Subscapularis muscle, Left, T-13650-LFT]	MDC_MUSC_UPEXT_SUBSCAP_L	625
Muscle Subscapularis, Right UpperExtremity Body	Musculus subscapularis, Right [Subscapularis muscle, Right, T-13650-RGT]	MDC_MUSC_UPEXT_SUBSCAP_R	626
Muscle Biceps, Brachii, NOS UpperExtremity Body	Musculus biceps brachii [Biceps brachii muscle, T-13670]	MDC_MUSC_UPEXT_BRACHI_BICEPS	628

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles (continued)

Systematic name	Description/Definition	Reference ID	Code
Muscle Biceps, Brachii, Left UpperExtremity Body	Musculus biceps brachii, Left [Biceps brachii muscle, Left, T-13670-LFT]	MDC_MUSC_UPEXT_BRACHI_BICEPS_L	629
Muscle Biceps, Brachii, Right UpperExtremity Body	Musculus biceps brachii, Right [Biceps brachii muscle, Right, T-13670-RGT]	MDC_MUSC_UPEXT_BRACHI_BICEPS_R	630
Muscle Brachialis, NOS UpperExtremity Body	Musculus brachialis [Brachialis muscle, T-13680]	MDC_MUSC_UPEXT_BRACHIAL	632
Muscle Brachialis, Left UpperExtremity Body	Musculus brachialis, Left [Brachialis muscle, Left, T-13680-LFT]	MDC_MUSC_UPEXT_BRACHIAL_L	633
Muscle Brachialis, Right UpperExtremity Body	Musculus brachialis, Right [Brachialis muscle, Right, T-13680-RGT]	MDC_MUSC_UPEXT_BRACHIAL_R	634
Muscle Coracobrachialis, NOS UpperExtremity Body	Musculus coracobrachialis [Coracobrachialis muscle, T-13710]	MDC_MUSC_UPEXT_CORACOBACH	636
Muscle Coracobrachialis, Left UpperExtremity Body	Musculus coracobrachialis, Left [Coracobrachialis muscle, Left, T-13710-LFT]	MDC_MUSC_UPEXT_CORACOBACH_L	637
Muscle Coracobrachialis, Right UpperExtremity Body	Musculus coracobrachialis, Right [Coracobrachialis muscle, Right, T-13710-RGT]	MDC_MUSC_UPEXT_CORACOBACH_R	638
Muscle Triceps, Brachii, NOS UpperExtremity Body	Musculus triceps brachii [Triceps brachii muscle, T-13690]	MDC_MUSC_UPEXT_BRACH_TRICEPS	640
Muscle Triceps, Brachii, Left UpperExtremity Body	Musculus triceps brachii, Left [Triceps brachii muscle, Left, T-13690-LFT]	MDC_MUSC_UPEXT_BRACH_TRICEPS_L	641
Muscle Triceps, Brachii, Right UpperExtremity Body	Musculus triceps brachii, Right [Triceps brachii muscle, Right, T-13690-RGT]	MDC_MUSC_UPEXT_BRACH_TRICEPS_R	642
Muscle Triceps, Brachii, Caput, Longum, NOS UpperExtremity Body	Musculus triceps brachii, Caput longum [Triceps brachii muscle, long head, T-13691]	MDC_MUSC_UPEXT_BRACH_TRICEPS_CAP_LONG	644
Muscle Triceps, Brachii, Caput, Longum, Left UpperExtremity Body	Musculus triceps brachii, Caput longum, Left [Triceps brachii muscle, long head, Left, T-13691-LFT]	MDC_MUSC_UPEXT_BRACH_TRICEPS_CAP_LONG_L	645
Muscle Triceps, Brachii, Caput, Longum, Right UpperExtremity Body	Musculus triceps brachii, Caput longum, Right [Triceps brachii muscle, long head, Right, T-13691-RGT]	MDC_MUSC_UPEXT_BRACH_TRICEPS_CAP_LONG_R	646

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles (continued)

Systematic name	Description/Definition	Reference ID	Code
Muscle Triceps, Brachii, Caput, Laterale, NOS UpperExtremity Body	Musculus triceps brachii, Caput laterale [Triceps brachii muscle, lateral head, T-13692]	MDC_MUSC_UPEXT_BRACH_TRICEPS_CAP_LAT	648
Muscle Triceps, Brachii, Caput, Laterale, Left UpperExtremity Body	Musculus triceps brachii, Caput laterale, Left [Triceps brachii muscle, lateral head, Left, T-13692-LFT]	MDC_MUSC_UPEXT_BRACH_TRICEPS_CAP_LAT_L	649
Muscle Triceps, Brachii, Caput, Laterale, Right UpperExtremity Body	Musculus triceps brachii, Caput laterale, Right [Triceps brachii muscle, lateral head, Right, T-13692-RGT]	MDC_MUSC_UPEXT_BRACH_TRICEPS_CAP_LAT_R	650
Muscle Triceps, Brachii, Caput, Mediale, NOS UpperExtremity Body	Musculus triceps brachii, Caput mediale [Triceps brachii muscle, medial head, T-13693]	MDC_MUSC_UPEXT_BRACH_TRICEPS_CAP_MED	652
Muscle Triceps, Brachii, Caput, Mediale, Left UpperExtremity Body	Musculus triceps brachii, Caput mediale, Left [Triceps brachii muscle, medial head, Left, T-13693-LFT]	MDC_MUSC_UPEXT_BRACH_TRICEPS_CAP_MED_L	653
Muscle Triceps, Brachii, Caput, Mediale, Right UpperExtremity Body	Musculus triceps brachii, Caput mediale, Right [Triceps brachii muscle, medial head, Right, T-13693-RGT]	MDC_MUSC_UPEXT_BRACH_TRICEPS_CAP_MED_R	654
Muscle Anconeus, NOS UpperExtremity Body	Musculus anconeus [Anconeus muscle, T-13720]	MDC_MUSC_UPEXT_ANCON	656
Muscle Anconeus, Left UpperExtremity Body	Musculus anconeus, Left [Anconeus muscle, Left, T-13720-LFT]	MDC_MUSC_UPEXT_ANCON_L	657
Muscle Anconeus, Right UpperExtremity Body	Musculus anconeus, Right [Anconeus muscle, Right, T-13720-RGT]	MDC_MUSC_UPEXT_ANCON_R	658
Muscle Pronator, Teres, NOS UpperExtremity Body	Musculus pronator teres [Pronator teres muscle, T-13740]	MDC_MUSC_UPEXT_PRONATOR	660
Muscle Pronator, Teres, Left UpperExtremity Body	Musculus pronator teres, Left [Pronator teres muscle, Left, T-13740-LFT]	MDC_MUSC_UPEXT_PRONATOR_L	661
Muscle Pronator, Teres, Right UpperExtremity Body	Musculus pronator teres, Right [Pronator teres muscle, Right, T-13740-RGT]	MDC_MUSC_UPEXT_PRONATOR_R	662
Muscle Flexor, Carpi, Radialis, NOS UpperExtremity Body	Musculus flexor carpi radialis [Flexor carpi radialis muscle, T-13750]	MDC_MUSC_UPEXT_FLEX_CARPI_RADIAL	664
Muscle Flexor, Carpi, Radialis, Left UpperExtremity Body	Musculus flexor carpi radialis, Left [Flexor carpi radialis muscle, Left, T-13750-LFT]	MDC_MUSC_UPEXT_FLEX_CARPI_RADIAL_L	665

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles *(continued)*

Systematic name	Description/Definition	Reference ID	Code
Muscle Flexor, Carpi, Radialis, Right UpperExtremity Body	Musculus flexor carpi radialis, Right [Flexor carpi radialis muscle, Right, T-13750-RGT]	MDC_MUSC_UPEXT_FLEX_CARPI_RADIAL_R	666
Muscle Palmaris, Longus, NOS UpperExtremity Body	Musculus palmaris longus [Palmaris longus muscle, T-13760]	MDC_MUSC_UPEXT_PALMAR_LONG	668
Muscle Palmaris, Longus, Left UpperExtremity Body	Musculus palmaris longus, Left [Palmaris longus muscle, Left, T-13760-LFT]	MDC_MUSC_UPEXT_PALMAR_LONG_L	669
Muscle Palmaris, Longus, Right UpperExtremity Body	Musculus palmaris longus, Right [Palmaris longus muscle, Right, T-13760-RGT]	MDC_MUSC_UPEXT_PALMAR_LONG_R	670
Muscle Flexor, Carpi, Ulnaris, NOS UpperExtremity Body	Musculus flexor carpi ulnaris [Flexor carpi ulnaris muscle, T-13770]	MDC_MUSC_UPEXT_FLEX_CARPI_ULNAR	672
Muscle Flexor, Carpi, Ulnaris, Left UpperExtremity Body	Musculus flexor carpi ulnaris, Left [Flexor carpi ulnaris muscle, Left, T-13770-LFT]	MDC_MUSC_UPEXT_FLEX_CARPI_ULNAR_L	673
Muscle Flexor, Carpi, Ulnaris, Right UpperExtremity Body	Musculus flexor carpi ulnaris, Right [Flexor carpi ulnaris muscle, Right, T-13770-RGT]	MDC_MUSC_UPEXT_FLEX_CARPI_ULNAR_R	674
Muscle Flexor, Digitorum, Superficialis, NOS UpperExtremity Body	Musculus flexor digitorum superficialis [Flexor digitorum superficialis muscle, T-13781]	MDC_MUSC_UPEXT_FLEX_DIGIT_SUPERF	676
Muscle Flexor, Digitorum, Superficialis, Left UpperExtremity Body	Musculus flexor digitorum superficialis, Left [Flexor digitorum superficialis muscle, Left, T-13781-LFT]	MDC_MUSC_UPEXT_FLEX_DIGIT_SUPERF_L	677
Muscle Flexor, Digitorum, Superficialis, Right UpperExtremity Body	Musculus flexor digitorum superficialis, Right [Flexor digitorum superficialis muscle, Right, T-13781-RGT]	MDC_MUSC_UPEXT_FLEX_DIGIT_SUPERF_R	678
Muscle Flexor, Digitorum, Profundus, NOS UpperExtremity Body	Musculus flexor digitorum profundus [Flexor digitorum profundus muscle, T-13784]	MDC_MUSC_UPEXT_FLEX_DIGIT_PROFUND	680
Muscle Flexor, Digitorum, Profundus, Left UpperExtremity Body	Musculus flexor digitorum profundus, Left [Flexor digitorum profundus muscle, Left, T-13784-LFT]	MDC_MUSC_UPEXT_FLEX_DIGIT_PROFUND_L	681
Muscle Flexor, Digitorum, Profundus, Right UpperExtremity Body	Musculus flexor digitorum profundus, Right [Flexor digitorum profundus muscle, Right, T-13784-RGT]	MDC_MUSC_UPEXT_FLEX_DIGIT_PROFUND_R	682
Muscle Flexor, Pollicis, Longus, NOS UpperExtremity Body	Musculus flexor pollicis longus [Flexor pollicis longus muscle, T-13790]	MDC_MUSC_UPEXT_FLEX_POLLIC_LONG	684

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles *(continued)*

Systematic name	Description/Definition	Reference ID	Code
Muscle Flexor, Pollicis, Longus, Left UpperExtremity Body	Musculus flexor pollicis longus, Left [Flexor pollicis longus muscle, Left, T-13790-LFT]	MDC_MUSC_UPEXT_FLEX_POLLIC_LONG_L	685
Muscle Flexor, Pollicis, Longus, Right UpperExtremity Body	Musculus flexor pollicis longus, Right [Flexor pollicis longus muscle, Right, T-13790-RGT]	MDC_MUSC_UPEXT_FLEX_POLLIC_LONG_R	686
Muscle Pronator, Quadratus, NOS UpperExtremity Body	Musculus pronator quadratus [Pronator quadratus muscle, T-13810]	MDC_MUSC_UPEXT_PRONATOR_QUADRAT	688
Muscle Pronator, Quadratus, Left UpperExtremity Body	Musculus pronator quadratus, Left [Pronator quadratus muscle, Left, T-13810-LFT]	MDC_MUSC_UPEXT_PRONATOR_QUADRAT_L	689
Muscle Pronator, Quadratus, Right UpperExtremity Body	Musculus pronator quadratus, Right [Pronator quadratus muscle, Right, T-13810-RGT]	MDC_MUSC_UPEXT_PRONATOR_QUADRAT_R	690
Muscle Brachioradialis, NOS UpperExtremity Body	Musculus brachioradialis [Brachioradialis muscle, T-13820]	MDC_MUSC_UPEXT_BRACHIORADIAL	692
Muscle Brachioradialis, Left UpperExtremity Body	Musculus brachioradialis, Left [Brachioradialis muscle, Left, T-13820-LFT]	MDC_MUSC_UPEXT_BRACHIORADIAL_L	693
Muscle Brachioradialis, Right UpperExtremity Body	Musculus brachioradialis, Right [Brachioradialis muscle, Right, T-13820-RGT]	MDC_MUSC_UPEXT_BRACHIORADIAL_R	694
Muscle Extensor, Carpi, Radialis, Longus, NOS UpperExtremity Body	Musculus extensor carpi radialis longus [Extensor carpi radialis longus muscle, T-13831]	MDC_MUSC_UPEXT_EXTENS_CARP_RADIAL_LONG	696
Muscle Extensor, Carpi, Radialis, Longus, Left UpperExtremity Body	Musculus extensor carpi radialis longus, Left [Extensor carpi radialis longus muscle, Left, T-13831-LFT]	MDC_MUSC_UPEXT_EXTENS_CARP_RADIAL_LONG_L	697
Muscle Extensor, Carpi, Radialis, Longus, Right UpperExtremity Body	Musculus extensor carpi radialis longus, Right [Extensor carpi radialis longus muscle, Right, T-13831-RGT]	MDC_MUSC_UPEXT_EXTENS_CARP_RADIAL_LONG_R	698
Muscle Extensor, Carpi, Radialis, Brevis, NOS UpperExtremity Body	Musculus extensor carpi radialis brevis [Extensor carpi radialis brevis muscle, T-13832]	MDC_MUSC_UPEXT_EXTENS_CARP_RADIAL_BREV	700
Muscle Extensor, Carpi, Radialis, Brevis, Left UpperExtremity Body	Musculus extensor carpi radialis brevis, Left [Extensor carpi radialis brevis muscle, Left, T-13832-LFT]	MDC_MUSC_UPEXT_EXTENS_CARP_RADIAL_BREV_L	701
Muscle Extensor, Carpi, Radialis, Brevis, Right UpperExtremity Body	Musculus extensor carpi radialis brevis, Right [Extensor carpi radialis brevis muscle, Right, T-13832-RGT]	MDC_MUSC_UPEXT_EXTENS_CARP_RADIAL_BREV_R	702

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles (continued)

Systematic name	Description/Definition	Reference ID	Code
Muscle Extensor, Digitorum, NOS UpperExtremity Body	Musculus extensor digitorum [Extensor digitorum muscle, T-13840]	MDC_MUSC_UPEXT_EXTENS_DIGIT	704
Muscle Extensor, Digitorum, Left UpperExtremity Body	Musculus extensor digitorum, Left [Extensor digitorum muscle, Left, T-13840-LFT]	MDC_MUSC_UPEXT_EXTENS_DIGIT_L	705
Muscle Extensor, Digitorum, Right UpperExtremity Body	Musculus extensor digitorum, Right [Extensor digitorum muscle, Right, T-13840-RGT]	MDC_MUSC_UPEXT_EXTENS_DIGIT_R	706
Muscle Extensor, Digiti, Minimi, NOS UpperExtremity Body	Musculus extensor digiti minimi [Extensor digiti minimi muscle, T-13842]	MDC_MUSC_UPEXT_EXTENS_DIGIT_MIN	708
Muscle Extensor, Digiti, Minimi, Left UpperExtremity Body	Musculus extensor digiti minimi, Left [Extensor digiti minimi muscle, Left, T-13842-LFT]	MDC_MUSC_UPEXT_EXTENS_DIGIT_MIN_L	709
Muscle Extensor, Digiti, Minimi, Right UpperExtremity Body	Musculus extensor digiti minimi, Right [Extensor digiti minimi muscle, Right, T-13842-RGT]	MDC_MUSC_UPEXT_EXTENS_DIGIT_MIN_R	710
Muscle Extensor, Carpi, Ulnaris, NOS UpperExtremity Body	Musculus extensor carpi ulnaris [Extensor carpi ulnaris muscle, T-13850]	MDC_MUSC_UPEXT_EXTENS_CARP_ULNAR	712
Muscle Extensor, Carpi, Ulnaris, Left UpperExtremity Body	Musculus extensor carpi ulnaris, Left [Extensor carpi ulnaris muscle, Left, T-13850-LFT]	MDC_MUSC_UPEXT_EXTENS_CARP_ULNAR_L	713
Muscle Extensor, Carpi, Ulnaris, Right UpperExtremity Body	Musculus extensor carpi ulnaris, Right [Extensor carpi ulnaris muscle, Right, T-13850-RGT]	MDC_MUSC_UPEXT_EXTENS_CARP_ULNAR_R	714
Muscle Supinator, NOS UpperExtremity Body	Musculus supinator [Supinator muscle, T-13860]	MDC_MUSC_UPEXT_SUPINATOR	716
Muscle Supinator, Left UpperExtremity Body	Musculus supinator, Left [Supinator muscle, Left, T-13860-LFT]	MDC_MUSC_UPEXT_SUPINATOR_L	717
Muscle Supinator, Right UpperExtremity Body	Musculus supinator, Right [Supinator muscle, Right, T-13860-RGT]	MDC_MUSC_UPEXT_SUPINATOR_R	718
Muscle Abductor, Pollicis, Longus, NOS UpperExtremity Body	Musculus abductor pollicis longus [Abductor pollicis longus muscle, T-13881]	MDC_MUSC_UPEXT_ABDUC_POLLIC_LONG	720
Muscle Abductor, Pollicis, Longus, Left UpperExtremity Body	Musculus abductor pollicis longus, Left [Abductor pollicis longus muscle, Left, T-13881-LFT]	MDC_MUSC_UPEXT_ABDUC_POLLIC_LONG_L	721

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles (continued)

Systematic name	Description/Definition	Reference ID	Code
Muscle Abductor, Pollicis, Longus, Right UpperExtremity Body	Musculus abductor pollicis longus, Right [Abductor pollicis longus muscle, Right, T-13881-RGT]	MDC_MUSC_UPEXT_ABDUC_POLLIC_LONG_R	722
Muscle Extensor, Pollicis, Brevis, NOS UpperExtremity Body	Musculus extensor pollicis brevis [Extensor pollicis brevis muscle, T-13911]	MDC_MUSC_UPEXT_EXTENS_POLLIC_BREV	724
Muscle Extensor, Pollicis, Brevis, Left UpperExtremity Body	Musculus extensor pollicis brevis, Left [Extensor pollicis brevis muscle, Left, T-13911-LFT]	MDC_MUSC_UPEXT_EXTENS_POLLIC_BREV_L	725
Muscle Extensor, Pollicis, Brevis, Right UpperExtremity Body	Musculus extensor pollicis brevis, Right [Extensor pollicis brevis muscle, Right, T-13911-RGT]	MDC_MUSC_UPEXT_EXTENS_POLLIC_BREV_R	726
Muscle Extensor, Pollicis, Longus, NOS UpperExtremity Body	Musculus extensor pollicis longus [Extensor pollicis longus muscle, T-13912]	MDC_MUSC_UPEXT_EXTENS_POLLIC_LONG	728
Muscle Extensor, Pollicis, Longus, Left UpperExtremity Body	Musculus extensor pollicis longus, Left [Extensor pollicis longus muscle, Left, T-13912-LFT]	MDC_MUSC_UPEXT_EXTENS_POLLIC_LONG_L	729
Muscle Extensor, Pollicis, Longus, Right UpperExtremity Body	Musculus extensor pollicis longus, Right [Extensor pollicis longus muscle, Right, T-13912-RGT]	MDC_MUSC_UPEXT_EXTENS_POLLIC_LONG_R	730
Muscle Extensor, Indicis, NOS UpperExtremity Body	Musculus extensor indicis [Extensor indicis muscle, T-13913]	MDC_MUSC_UPEXT_EXTENS_INDIC	732
Muscle Extensor, Indicis, Left UpperExtremity Body	Musculus extensor indicis, Left [Extensor indicis muscle, Left, T-13913-LFT]	MDC_MUSC_UPEXT_EXTENS_INDIC_L	733
Muscle Extensor, Indicis, Right UpperExtremity Body	Musculus extensor indicis, Right [Extensor indicis muscle, Right, T-13913-RGT]	MDC_MUSC_UPEXT_EXTENS_INDIC_R	734
Muscle Palmaris, Brevis, NOS UpperExtremity Body	Musculus palmaris brevis [Palmaris brevis muscle, T-13870]	MDC_MUSC_UPEXT_PALMAR_BREV	736
Muscle Palmaris, Brevis, Left UpperExtremity Body	Musculus palmaris brevis, Left [Palmaris brevis muscle, Left, T-13870-LFT]	MDC_MUSC_UPEXT_PALMAR_BREV_L	737
Muscle Palmaris, Brevis, Right UpperExtremity Body	Musculus palmaris brevis, Right [Palmaris brevis muscle, Right, T-13870-RGT]	MDC_MUSC_UPEXT_PALMAR_BREV_R	738
Muscle Abductor, Pollicis, Brevis, NOS UpperExtremity Body	Musculus abductor pollicis brevis [Abductor pollicis brevis muscle, T-13882]	MDC_MUSC_UPEXT_ABDUC_POLLIC_BREV	740

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles (continued)

Systematic name	Description/Definition	Reference ID	Code
Muscle Abductor, Pollicis, Brevis, Left UpperExtremity Body	Musculus abductor pollicis brevis, Left [Abductor pollicis brevis muscle, Left, T-13882-LFT]	MDC_MUSC_UPEXT_ABDUC_POLLIC_BREV_L	741
Muscle Abductor, Pollicis, Brevis, Right UpperExtremity Body	Musculus abductor pollicis brevis, Right [Abductor pollicis brevis muscle, Right, T-13882-RGT]	MDC_MUSC_UPEXT_ABDUC_POLLIC_BREV_R	742
Muscle Flexor, Pollicis, Brevis, NOS UpperExtremity Body	Musculus flexor pollicis brevis [Flexor pollicis brevis muscle, T-13890]	MDC_MUSC_UPEXT_FLEX_POLLIC_BREV	744
Muscle Flexor, Pollicis, Brevis, Left UpperExtremity Body	Musculus flexor pollicis brevis, Left [Flexor pollicis brevis muscle, Left, T-13890-LFT]	MDC_MUSC_UPEXT_FLEX_POLLIC_BREV_L	745
Muscle Flexor, Pollicis, Brevis, Right UpperExtremity Body	Musculus flexor pollicis brevis, Right [Flexor pollicis brevis muscle, Right, T-13890-RGT]	MDC_MUSC_UPEXT_FLEX_POLLIC_BREV_R	746
Muscle Opponens, Pollicis, NOS UpperExtremity Body	Musculus opponens pollicis [Opponens pollicis muscle, T-13920]	MDC_MUSC_UPEXT_OPON_POLLIC	748
Muscle Opponens, Pollicis, Left UpperExtremity Body	Musculus opponens pollicis, Left [Opponens pollicis muscle, Left, T-13920-LFT]	MDC_MUSC_UPEXT_OPON_POLLIC_L	749
Muscle Opponens, Pollicis, Right UpperExtremity Body	Musculus opponens pollicis, Right [Opponens pollicis muscle, Right, T-13920-RGT]	MDC_MUSC_UPEXT_OPON_POLLIC_R	750
Muscle Adductor, Pollicis, NOS UpperExtremity Body	Musculus adductor pollicis [Adductor pollicis muscle, T-13930]	MDC_MUSC_UPEXT_ADDUC_POLLIC	752
Muscle Adductor, Pollicis, Left UpperExtremity Body	Musculus adductor pollicis, Left [Adductor pollicis muscle, Left, T-13930-LFT]	MDC_MUSC_UPEXT_ADDUC_POLLIC_L	753
Muscle Adductor, Pollicis, Right UpperExtremity Body	Musculus adductor pollicis, Right [Adductor pollicis muscle, Right, T-13930-RGT]	MDC_MUSC_UPEXT_ADDUC_POLLIC_R	754
Muscle Abductor, Digiti, Minimi, NOS UpperExtremity Body	Musculus abductor digiti minimi [Adductor digiti minimi muscle of hand, T-13940]	MDC_MUSC_UPEXT_ABDUC_DIGIT_MIN	756
Muscle Abductor, Digiti, Minimi, Left UpperExtremity Body	Musculus abductor digiti minimi, Left [Adductor digiti minimi muscle of hand, Left, T-13940-LFT]	MDC_MUSC_UPEXT_ABDUC_DIGIT_MIN_L	757
Muscle Abductor, Digiti, Minimi, Right UpperExtremity Body	Musculus abductor digiti minimi, Right [Adductor digiti minimi muscle of hand, Right, T-13940-RGT]	MDC_MUSC_UPEXT_ABDUC_DIGIT_MIN_R	758

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles (continued)

Systematic name	Description/Definition	Reference ID	Code
Muscle Flexor, Digiti, Minimi, Brevis, NOS UpperExtremity Body	Musculus flexor digiti minimi brevis [Flexor digiti minimi brevis muscle of hand, T-13950]	MDC_MUSC_UPEXT_FLEX_DIGIT_BREV_MIN	760
Muscle Flexor, Digiti, Minimi, Brevis, Left UpperExtremity Body	Musculus flexor digiti minimi brevis, Left [Flexor digiti minimi brevis muscle of hand, Left, T-13950-LFT]	MDC_MUSC_UPEXT_FLEX_DIGIT_BREV_MIN_L	761
Muscle Flexor, Digiti, Minimi, Brevis, Right UpperExtremity Body	Musculus flexor digiti minimi brevis, Right [Flexor digiti minimi brevis muscle of hand, Right, T-13950-RGT]	MDC_MUSC_UPEXT_FLEX_DIGIT_BREV_MIN_R	762
Muscle Opponens, Digiti, Minimi, NOS UpperExtremity Body	Musculus opponens digiti minimi [Opponens digiti minimi muscle of hand, T-13960]	MDC_MUSC_UPEXT_OPON_DIGIT_MIN	764
Muscle Opponens, Digiti, Minimi, Left UpperExtremity Body	Musculus opponens digiti minimi, Left [Opponens digiti minimi muscle of hand, Left, T-13960-LFT]	MDC_MUSC_UPEXT_OPON_DIGIT_MIN_L	765
Muscle Opponens, Digiti, Minimi, Right UpperExtremity Body	Musculus opponens digiti minimi, Right [Opponens digiti minimi muscle of hand, Right, T-13960-RGT]	MDC_MUSC_UPEXT_OPON_DIGIT_MIN_R	766
Muscle Lumbricales, NOS UpperExtremity Body	Musculi lumbricales [Lumbrical muscles of hand, T-13970]	MDC_MUSC_UPEXT_LUMBRICAL	768
Muscle Lumbricales, Left UpperExtremity Body	Musculi lumbricales, Left [Lumbrical muscles of hand, Left, T-13970-LFT]	MDC_MUSC_UPEXT_LUMBRICAL_L	769
Muscle Lumbricales, Right UpperExtremity Body	Musculi lumbricales, Right [Lumbrical muscles of hand, Right, T-13970-RGT]	MDC_MUSC_UPEXT_LUMBRICAL_R	770
Muscle Interossei, Dorsales, NOS UpperExtremity Body	Musculi interossei dorsales [Dorsal interosseous muscles of hand, T-13981]	MDC_MUSC_UPEXT_INTEROSS_DORSAL	772
Muscle Interossei, Dorsales, Left UpperExtremity Body	Musculi interossei dorsales, Left [Dorsal interosseous muscles of hand, Left, T-13981-LFT]	MDC_MUSC_UPEXT_INTEROSS_DORSAL_L	773
Muscle Interossei, Dorsales, Right UpperExtremity Body	Musculi interossei dorsales, Right [Dorsal interosseous muscles of hand, Right, T-13981-RGT]	MDC_MUSC_UPEXT_INTEROSS_DORSAL_R	774
Muscle Interossei, Palmares, NOS UpperExtremity Body	Musculi interossei palmares [Palmar interosseous muscles of hand, T-13982]	MDC_MUSC_UPEXT_INTEROSS_PALMAR	776
Muscle Interossei, Palmares, Left UpperExtremity Body	Musculi interossei palmares, Left [Palmar interosseous muscles of hand, Left, T-13982-LFT]	MDC_MUSC_UPEXT_INTEROSS_PALMAR_L	777

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles (continued)

Systematic name	Description/Definition	Reference ID	Code
Muscle Interossei, Palmares, Right UpperExtremity Body	Musculi interossei palmares, Right [Palmar interosseous muscles of hand, Right, T-13982-RGT]	MDC_MUSC_UPEXT_INTEROSS_PALMAR_R	778
Muscle Hip, Thigh, NOS LowerExtremity Body	[Muscle of hip and thigh, NOS, T-14400]	MDC_MUSC_LOEXT_HIP_THIGH	780
Muscle Hip, Thigh, Left LowerExtremity Body	[Muscle of hip and thigh, NOS, Left, T-14400-LFT]	MDC_MUSC_LOEXT_HIP_THIGH_L	781
Muscle Hip, Thigh, Right LowerExtremity Body	[Muscle of hip and thigh, NOS, Right, T-14400-RGT]	MDC_MUSC_LOEXT_HIP_THIGH_R	782
Muscle Leg, NOS LowerExtremity Body	[Muscle of leg, NOS, T-14700]	MDC_MUSC_LOEXT_LEG	784
Muscle Leg, Left LowerExtremity Body	[Muscle of leg, NOS, Left, T-14700-LFT]	MDC_MUSC_LOEXT_LEG_L	785
Muscle Leg, Right LowerExtremity Body	[Muscle of leg, NOS, Right, T-14700-RGT]	MDC_MUSC_LOEXT_LEG_R	786
Muscle Foot, NOS LowerExtremity Body	[Muscle of foot, NOS, T-14900]	MDC_MUSC_LOEXT_FOOT	788
Muscle Foot, Left LowerExtremity Body	[Muscle of foot, NOS, Left, T-14900-LFT]	MDC_MUSC_LOEXT_FOOT_L	789
Muscle Foot, Right LowerExtremity Body	[Muscle of foot, NOS, Right, T-14900-RGT]	MDC_MUSC_LOEXT_FOOT_R	790
Muscle Iliopsoas, NOS LowerExtremity Body	Musculus iliopsoas [Iliopsoas muscle, NOS, T-14410]	MDC_MUSC_LOEXT_ILIOPS	792
Muscle Iliopsoas, Left LowerExtremity Body	Musculus iliopsoas, Left [Iliopsoas muscle, NOS, Left, T-14410-LFT]	MDC_MUSC_LOEXT_ILIOPS_L	793
Muscle Iliopsoas, Right LowerExtremity Body	Musculus iliopsoas, Right [Iliopsoas muscle, NOS, Right, T-14410-RGT]	MDC_MUSC_LOEXT_ILIOPS_R	794
Muscle Gluteus, Maximus, NOS LowerExtremity Body	Musculus gluteus maximus [Gluteus maximus muscle, T-14430]	MDC_MUSC_LOEXT_GLUT_MAX	796
Muscle Gluteus, Maximus, Left LowerExtremity Body	Musculus gluteus maximus, Left [Gluteus maximus muscle, Left, T-14430-LFT]	MDC_MUSC_LOEXT_GLUT_MAX_L	797
Muscle Gluteus, Maximus, Right LowerExtremity Body	Musculus gluteus maximus, Right [Gluteus maximus muscle, Right, T-14430-RGT]	MDC_MUSC_LOEXT_GLUT_MAX_R	798
Muscle Gluteus, Medius, NOS LowerExtremity Body	Musculus gluteus medius [Gluteus medius muscle, T-14440]	MDC_MUSC_LOEXT_GLUT_MED	800

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles (continued)

Systematic name	Description/Definition	Reference ID	Code
Muscle Gluteus, Medius, Left LowerExtremity Body	Musculus gluteus medius, Left [Gluteus medius muscle, Left, T-14440-LFT]	MDC_MUSC_LOEXT_GLUT_MED_L	801
Muscle Gluteus, Medius, Right LowerExtremity Body	Musculus gluteus medius, Right [Gluteus medius muscle, Right, T-14440-RGT]	MDC_MUSC_LOEXT_GLUT_MED_R	802
Muscle Gluteus, Minimus, NOS LowerExtremity Body	Musculus gluteus minimus [Gluteus minimus muscle, T-14450]	MDC_MUSC_LOEXT_GLUT_MIN	804
Muscle Gluteus, Minimus, Left LowerExtremity Body	Musculus gluteus minimus, Left [Gluteus minimus muscle, Left, T-14450-LFT]	MDC_MUSC_LOEXT_GLUT_MIN_L	805
Muscle Gluteus, Minimus, Right LowerExtremity Body	Musculus gluteus minimus, Right [Gluteus minimus muscle, Right, T-14450-RGT]	MDC_MUSC_LOEXT_GLUT_MIN_R	806
Muscle Tensor, Fasciae, Latae, NOS LowerExtremity Body	Musculus tensor fasciae latae [Tensor fasciae latae muscle, T-14451]	MDC_MUSC_LOEXT_TENSOR_FASC_LAT	808
Muscle Tensor, Fasciae, Latae, Left LowerExtremity Body	Musculus tensor fasciae latae, Left [Tensor fasciae latae muscle, Left, T-14451-LFT]	MDC_MUSC_LOEXT_TENSOR_FASC_LAT_L	809
Muscle Tensor, Fasciae, Latae, Right LowerExtremity Body	Musculus tensor fasciae latae, Right [Tensor fasciae latae muscle, Right, T-14451-RGT]	MDC_MUSC_LOEXT_TENSOR_FASC_LAT_R	810
Muscle Piriformis, NOS LowerExtremity Body	Musculus piriformis [Piriform muscle, T-14460]	MDC_MUSC_LOEXT_PIRIFORM	812
Muscle Piriformis, Left LowerExtremity Body	Musculus piriformis, Left [Piriform muscle, Left, T-14460-LFT]	MDC_MUSC_LOEXT_PIRIFORM_L	813
Muscle Piriformis, Right LowerExtremity Body	Musculus piriformis, Right [Piriform muscle, Right, T-14460-RGT]	MDC_MUSC_LOEXT_PIRIFORM_R	814
Muscle Obturator, NOS LowerExtremity Body	Musculus obturator [Obturator muscle, NOS, T-14420]	MDC_MUSC_LOEXT_OBTURATOR	816
Muscle Obturator, Left LowerExtremity Body	Musculus obturator, Left [Obturator muscle, NOS, Left, T-14420-LFT]	MDC_MUSC_LOEXT_OBTURATOR_L	817
Muscle Obturator, Right LowerExtremity Body	Musculus obturator, Right [Obturator muscle, NOS, Right, T-14420-RGT]	MDC_MUSC_LOEXT_OBTURATOR_R	818

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles *(continued)*

Systematic name	Description/Definition	Reference ID	Code
Muscle Gemellus, NOS LowerExtremity Body	Musculus gmellus [Gemellus muscle, NOS, T-14470]	MDC_MUSC_LOEXT_GEMEL	820
Muscle Gemellus, Left LowerExtremity Body	Musculus gmellus, Left [Gemellus muscle, NOS, Left, T-14470-LFT]	MDC_MUSC_LOEXT_GEMEL_L	821
Muscle Gemellus, Right LowerExtremity Body	Musculus gmellus, Right [Gemellus muscle, NOS, Right, T-14470-RGT]	MDC_MUSC_LOEXT_GEMEL_R	822
Muscle Quadratus, Femoris, NOS LowerExtremity Body	Musculus quadratus femoris [Quadratus femoris muscle, T-14480]	MDC_MUSC_LOEXT_QUADRAT_FEMOR	824
Muscle Quadratus, Femoris, Left LowerExtremity Body	Musculus quadratus femoris, Left [Quadratus femoris muscle, Left, T-14480-LFT]	MDC_MUSC_LOEXT_QUADRAT_FEMOR_L	825
Muscle Quadratus, Femoris, Right LowerExtremity Body	Musculus quadratus femoris, Right [Quadratus femoris muscle, Right, T-14480-RGT]	MDC_MUSC_LOEXT_QUADRAT_FEMOR_R	826
Muscle Sartorius, NOS LowerExtremity Body	Musculus sartorius [Sartorius muscle, T-14490]	MDC_MUSC_LOEXT_SARTOR	828
Muscle Sartorius, Left LowerExtremity Body	Musculus sartorius, Left [Sartorius muscle, Left, T-14490-LFT]	MDC_MUSC_LOEXT_SARTOR_L	829
Muscle Sartorius, Right LowerExtremity Body	Musculus sartorius, Right [Sartorius muscle, Right, T-14490-RGT]	MDC_MUSC_LOEXT_SARTOR_R	830
Muscle Quadriceps, Femoris, NOS LowerExtremity Body	Musculus quadriceps femoris [Quadriceps femoris muscle, T-14550]	MDC_MUSC_LOEXT_QUADRICEPS_FEMOR	832
Muscle Quadriceps, Femoris, Left LowerExtremity Body	Musculus quadriceps femoris, Left [Quadriceps femoris muscle, Left, T-14550-LFT]	MDC_MUSC_LOEXT_QUADRICEPS_FEMOR_L	833
Muscle Quadriceps, Femoris, Right LowerExtremity Body	Musculus quadriceps femoris, Right [Quadriceps femoris muscle, Right, T-14550-RGT]	MDC_MUSC_LOEXT_QUADRICEPS_FEMOR_R	834
Muscle Rectus, Femoris, NOS LowerExtremity Body	Musculus rectus femoris [Rectus femoris muscle, T-14560]	MDC_MUSC_LOEXT_RECT_FEMOR	836
Muscle Rectus, Femoris, Left LowerExtremity Body	Musculus rectus femoris, Left [Rectus femoris muscle, Left, T-14560-LFT]	MDC_MUSC_LOEXT_RECT_FEMOR_L	837

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles *(continued)*

Systematic name	Description/Definition	Reference ID	Code
Muscle Rectus, Femoris, Right LowerExtremity Body	Musculus rectus femoris, Right [Rectus femoris muscle, Right, T-14560-RGT]	MDC_MUSC_LOEXT_RECT_FEMOR_R	838
Muscle Vastus, Lateralis, NOS LowerExtremity Body	Musculus vastus lateralis [Vastus lateralis muscle, T-14570]	MDC_MUSC_LOEXT_VAST_LAT	840
Muscle Vastus, Lateralis, Left LowerExtremity Body	Musculus vastus lateralis, Left [Vastus lateralis muscle, Left, T-14570-LFT]	MDC_MUSC_LOEXT_VAST_LAT_L	841
Muscle Vastus, Lateralis, Right LowerExtremity Body	Musculus vastus lateralis, Right [Vastus lateralis muscle, Right, T-14570-RGT]	MDC_MUSC_LOEXT_VAST_LAT_R	842
Muscle Vastus, Intermedius, NOS LowerExtremity Body	Musculus vastus intermedius [Vastus intermedius muscle, T-14620]	MDC_MUSC_LOEXT_VAST_INTERMED	844
Muscle Vastus, Intermedius, Left LowerExtremity Body	Musculus vastus intermedius, Left [Vastus intermedius muscle, Left, T-14620-LFT]	MDC_MUSC_LOEXT_VAST_INTERMED_L	845
Muscle Vastus, Intermedius, Right LowerExtremity Body	Musculus vastus intermedius, Right [Vastus intermedius muscle, Right, T-14620-RGT]	MDC_MUSC_LOEXT_VAST_INTERMED_R	846
Muscle Vastus, Medialis, NOS LowerExtremity Body	Musculus vastus medialis [Vastus medialis muscle, T-14580]	MDC_MUSC_LOEXT_VAST_MED	848
Muscle Vastus, Medialis, Left LowerExtremity Body	Musculus vastus medialis, Left [Vastus medialis muscle, Left, T-14580-LFT]	MDC_MUSC_LOEXT_VAST_MED_L	849
Muscle Vastus, Medialis, Right LowerExtremity Body	Musculus vastus medialis, Right [Vastus medialis muscle, Right, T-14580-RGT]	MDC_MUSC_LOEXT_VAST_MED_R	850
Muscle Pectineus, NOS LowerExtremity Body	Musculus pectineus [Pectineus muscle, T-14610]	MDC_MUSC_LOEXT_PECTIN	852
Muscle Pectineus, Left LowerExtremity Body	Musculus pectineus, Left [Pectineus muscle, Left, T-14610-LFT]	MDC_MUSC_LOEXT_PECTIN_L	853
Muscle Pectineus, Right LowerExtremity Body	Musculus pectineus, Right [Pectineus muscle, Right, T-14610-RGT]	MDC_MUSC_LOEXT_PECTIN_R	854
Muscle Adductor, Longus, NOS LowerExtremity Body	Musculus adductor longus [Adductor longus muscle, T-14520]	MDC_MUSC_LOEXT ABDUC_LONG	856

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles *(continued)*

Systematic name	Description/Definition	Reference ID	Code
Muscle Adductor, Longus, Left LowerExtremity Body	Musculus adductor longus, Left [Adductor longus muscle, Left, T-14520-LFT]	MDC_MUSC_LOEXT_ABDUC_LONG_L	857
Muscle Adductor, Longus, Right LowerExtremity Body	Musculus adductor longus, Right [Adductor longus muscle, T-14520]	MDC_MUSC_LOEXT_ABDUC_LONG_R	858
Muscle Adductor, Brevis, NOS LowerExtremity Body	Musculus adductor brevis [Adductor brevis muscle, T-14510]	MDC_MUSC_LOEXT_ABDUC_BREV	860
Muscle Adductor, Brevis, Left LowerExtremity Body	Musculus adductor brevis, Left [Adductor brevis muscle, Left, T-14510-LFT]	MDC_MUSC_LOEXT_ABDUC_BREV_L	861
Muscle Adductor, Brevis, Right LowerExtremity Body	Musculus adductor brevis, Right [Adductor brevis muscle, T-14510]	MDC_MUSC_LOEXT_ABDUC_BREV_R	862
Muscle Adductor, Magnus, NOS LowerExtremity Body	Musculus adductor magnus [Adductor magnus muscle, T-14530]	MDC_MUSC_LOEXT_ABDUC_MAGN	864
Muscle Adductor, Magnus, Left LowerExtremity Body	Musculus adductor magnus, Left [Adductor magnus muscle, Left, T-14530-LFT]	MDC_MUSC_LOEXT_ABDUC_MAGN_L	865
Muscle Adductor, Magnus, Right LowerExtremity Body	Musculus adductor magnus, Right [Adductor magnus muscle, T-14530]	MDC_MUSC_LOEXT_ABDUC_MAGN_R	866
Muscle Gracilis, NOS LowerExtremity Body	Musculus gracilis [Gracilis muscle, T-14540]	MDC_MUSC_LOEXT_GRACIL	868
Muscle Gracilis, Left LowerExtremity Body	Musculus gracilis, Left [Gracilis muscle, Left, T-14540-LFT]	MDC_MUSC_LOEXT_GRACIL_L	869
Muscle Gracilis, Right LowerExtremity Body	Musculus gracilis, Right [Gracilis muscle, T-14540]	MDC_MUSC_LOEXT_GRACIL_R	870
Muscle Biceps, Femoris, NOS LowerExtremity Body	Musculus biceps femoris [Biceps femoris muscle, T-14630]	MDC_MUSC_LOEXT_BICEPS_FEMOR	872
Muscle Biceps, Femoris, Left LowerExtremity Body	Musculus biceps femoris, Left [Biceps femoris muscle, Left, T-14630-LFT]	MDC_MUSC_LOEXT_BICEPS_FEMOR_L	873
Muscle Biceps, Femoris, Right LowerExtremity Body	Musculus biceps femoris, Right [Biceps femoris muscle, T-14630]	MDC_MUSC_LOEXT_BICEPS_FEMOR_R	874

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles *(continued)*

Systematic name	Description/Definition	Reference ID	Code
Muscle Biceps, Femoris, Caput, Longum, NOS LowerExtremity Body	Musculus biceps femoris Caput longum [Biceps femoris muscle, long head, T-14631]	MDC_MUSC_LOEXT_BICEPS_FEMOR_LONG	876
Muscle Biceps, Femoris, Caput, Longum, Left LowerExtremity Body	Musculus biceps femoris Caput longum, Left [Biceps femoris muscle, long head, Left, T-14631-LFT]	MDC_MUSC_LOEXT_BICEPS_FEMOR_LONG_L	877
Muscle Biceps, Femoris, Caput, Longum, Right LowerExtremity Body	Musculus biceps femoris Caput longum, Right [Biceps femoris muscle, long head, Right, T-14631-RGT]	MDC_MUSC_LOEXT_BICEPS_FEMOR_LONG_R	878
Muscle Biceps, Femoris, Caput, Brevis, NOS LowerExtremity Body	Musculus biceps femoris Caput breve [Biceps femoris muscle, short head, T-14632]	MDC_MUSC_LOEXT_BICEPS_FEMOR_BREV	880
Muscle Biceps, Femoris, Caput, Brevis, Left LowerExtremity Body	Musculus biceps femoris Caput breve, Left [Biceps femoris muscle, short head, Left, T-14632-LFT]	MDC_MUSC_LOEXT_BICEPS_FEMOR_BREV_L	881
Muscle Biceps, Femoris, Caput, Brevis, Right LowerExtremity Body	Musculus biceps femoris Caput breve, Right [Biceps femoris muscle, short head, Right, T-14632-RGT]	MDC_MUSC_LOEXT_BICEPS_FEMOR_BREV_R	882
Muscle Semitendinosus, NOS LowerExtremity Body	Musculus semitendinosus [Semitendinosus muscle, T-14650]	MDC_MUSC_LOEXT_SEMITENDIN	884
Muscle Semitendinosus, Left LowerExtremity Body	Musculus semitendinosus, Left [Semitendinosus muscle, Left, T-14650-LFT]	MDC_MUSC_LOEXT_SEMITENDIN_L	885
Muscle Semitendinosus, Right LowerExtremity Body	Musculus semitendinosus, Right [Semitendinosus muscle, Right, T-14650-RGT]	MDC_MUSC_LOEXT_SEMITENDIN_R	886
Muscle Semimembranosus, NOS LowerExtremity Body	Musculus semimembranosus [Semimembranosus muscle, T-14640]	MDC_MUSC_LOEXT_SEMIMEMBRAN	888
Muscle Semimembranosus, Left LowerExtremity Body	Musculus semimembranosus, Left [Semimembranosus muscle, Left, T-14640-LFT]	MDC_MUSC_LOEXT_SEMIMEMBRAN_L	889
Muscle Semimembranosus, Right LowerExtremity Body	Musculus semimembranosus, Right [Semimembranosus muscle, Right, T-14640-RGT]	MDC_MUSC_LOEXT_SEMIMEMBRAN_R	890
Muscle Tibialis, Anterior, NOS LowerExtremity Body	Musculus tibialis anterior [Tibialis anterior muscle, T-14760]	MDC_MUSC_LOEXT_TIBIAL_ANT	892
Muscle Tibialis, Anterior, Left LowerExtremity Body	Musculus tibialis anterior, Left [Tibialis anterior muscle, Left, T-14760-LFT]	MDC_MUSC_LOEXT_TIBIAL_ANT_L	893

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles (continued)

Systematic name	Description/Definition	Reference ID	Code
Muscle Tibialis, Anterior, Right LowerExtremity Body	Musculus tibialis anterior, Right [Tibialis anterior muscle, Right, T-14760-RGT]	MDC_MUSC_LOEXT_TIBIAL_ANT_R	894
Muscle Extensor, Digitorum, Longus, NOS LowerExtremity Body	Musculus extensor digitorum longus [Extensor digitorum longus muscle, T-14780]	MDC_MUSC_LOEXT_EXTENS_DIGIT_LONG	896
Muscle Extensor, Digitorum, Longus, Left LowerExtremity Body	Musculus extensor digitorum longus, Left [Extensor digitorum longus muscle, Left, T-14780-LFT]	MDC_MUSC_LOEXT_EXTENS_DIGIT_LONG_L	897
Muscle Extensor, Digitorum, Longus, Right LowerExtremity Body	Musculus extensor digitorum longus, Right [Extensor digitorum longus muscle, Right, T-14780-RGT]	MDC_MUSC_LOEXT_EXTENS_DIGIT_LONG_R	898
Muscle Extensor, Hallucis, Longus, NOS LowerExtremity, Leg Body	Musculus extensor hallucis longus [Extensor hallucis longus muscle, T-14790]	MDC_MUSC_LOEXT_EXTENS_HALLUC_LONG	900
Muscle Extensor, Hallucis, Longus, Left LowerExtremity, Leg Body	Musculus extensor hallucis longus, Left [Extensor hallucis longus muscle, Left, T-14790-LFT]	MDC_MUSC_LOEXT_EXTENS_HALLUC_LONG_L	901
Muscle Extensor, Hallucis, Longus, Right LowerExtremity, Leg Body	Musculus extensor hallucis longus, Right [Extensor hallucis longus muscle, Right, T-14790-RGT]	MDC_MUSC_LOEXT_EXTENS_HALLUC_LONG_R	902
Muscle Peroneus, NOS LowerExtremity Body	[Peroneal muscle, NOS, T-14810]	MDC_MUSC_LOEXT_PERON	904
Muscle Peroneus, Left LowerExtremity Body	[Peroneal muscle, NOS, Left, T-14810-LFT]	MDC_MUSC_LOEXT_PERON_L	905
Muscle Peroneus, Right LowerExtremity Body	[Peroneal muscle, NOS, Right, T-14810-RGT]	MDC_MUSC_LOEXT_PERON_R	906
Muscle Peroneus, Longus, NOS LowerExtremity Body	Musculus peroneus longus [Peroneus longus muscle, T-14811]	MDC_MUSC_LOEXT_PERON_LONG	908
Muscle Peroneus, Longus, Left LowerExtremity Body	Musculus peroneus longus, Left [Peroneus longus muscle, Left, T-14811-LFT]	MDC_MUSC_LOEXT_PERON_LONG_L	909
Muscle Peroneus, Longus, Right LowerExtremity Body	Musculus peroneus longus, Right [Peroneus longus muscle, Right, T-14811-RGT]	MDC_MUSC_LOEXT_PERON_LONG_R	910
Muscle Peroneus, Brevis, NOS LowerExtremity Body	Musculus peroneus brevis [Peroneus brevis muscle, T-14812]	MDC_MUSC_LOEXT_PERON_BREV	912

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles (continued)

Systematic name	Description/Definition	Reference ID	Code
Muscle Peroneus, Brevis, Left LowerExtremity Body	Musculus peroneus brevis, Left [Peroneus brevis muscle, Left, T-14812-LFT]	MDC_MUSC_LOEXT_PERON_BREV_L	913
Muscle Peroneus, Brevis, Right LowerExtremity Body	Musculus peroneus brevis, Right [Peroneus brevis muscle, Right, T-14812-RGT]	MDC_MUSC_LOEXT_PERON_BREV_R	914
Muscle Triceps, Surae, NOS LowerExtremity Body	Musculustriceps surae [Triceps surae muscle, T-14720]	MDC_MUSC_LOEXT_TRICEPS_SUR	916
Muscle Triceps, Surae, Left LowerExtremity Body	Musculustriceps surae, Left [Triceps surae muscle, Left, T-14720-LFT]	MDC_MUSC_LOEXT_TRICEPS_SUR_L	917
Muscle Triceps, Surae, Right LowerExtremity Body	Musculustriceps surae, Right [Triceps surae muscle, Right, T-14720-RGT]	MDC_MUSC_LOEXT_TRICEPS_SUR_R	918
Muscle Gastrocnemius, NOS LowerExtremity Body	Musculus gastrocnemius [Gastrocnemius muscle, T-14730]	MDC_MUSC_LOEXT_GASTROCNEM	920
Muscle Gastrocnemius, Left LowerExtremity Body	Musculus gastrocnemius, Left [Gastrocnemius muscle, Left, T-14730-LFT]	MDC_MUSC_LOEXT_GASTROCNEM_L	921
Muscle Gastrocnemius, Right LowerExtremity Body	Musculus gastrocnemius, Right [Gastrocnemius muscle, Right, T-14730-RGT]	MDC_MUSC_LOEXT_GASTROCNEM_R	922
Muscle Gastrocnemius, Caput, Laterale, NOS LowerExtremity Body	Musculus gastrocnemius Caput laterale [Gastrocnemius muscle, lateral head, T-14731]	MDC_MUSC_LOEXT_GASTROCNEM_LAT	924
Muscle Gastrocnemius, Caput, Laterale, Left LowerExtremity Body	Musculus gastrocnemius Caput laterale, Left [Gastrocnemius muscle, lateral head, Left, T-14731-LFT]	MDC_MUSC_LOEXT_GASTROCNEM_LAT_L	925
Muscle Gastrocnemius, Caput, Laterale, Right LowerExtremity Body	Musculus gastrocnemius Caput laterale, Right [Gastrocnemius muscle, lateral head, Right, T-14731-RGT]	MDC_MUSC_LOEXT_GASTROCNEM_LAT_R	926
Muscle Gastrocnemius, Caput, Mediale, NOS LowerExtremity Body	Musculus gastrocnemius Caput mediale [Gastrocnemius muscle, medial head, T-14732]	MDC_MUSC_LOEXT_GASTROCNEM_MED	928
Muscle Gastrocnemius, Caput, Mediale, Left LowerExtremity Body	Musculus gastrocnemius Caput mediale, Left [Gastrocnemius muscle, medial head, Left, T-14732-LFT]	MDC_MUSC_LOEXT_GASTROCNEM_MED_L	929
Muscle Gastrocnemius, Caput, Mediale, Right LowerExtremity Body	Musculus gastrocnemius Caput mediale, Right [Gastrocnemius muscle, medial head, Right, T-14732-RGT]	MDC_MUSC_LOEXT_GASTROCNEM_MED_R	930

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles *(continued)*

Systematic name	Description/Definition	Reference ID	Code
Muscle Soleus, NOS LowerExtremity Body	Musculus soleus [Soleus muscle, T-14740]	MDC_MUSC_LOEXT_SOL	932
Muscle Soleus, Left LowerExtremity Body	Musculus soleus, Left [Soleus muscle, Left, T-14740-LFT]	MDC_MUSC_LOEXT_SOL_L	933
Muscle Soleus, Right LowerExtremity Body	Musculus soleus, Right [Soleus muscle, Right, T-14740-RGT]	MDC_MUSC_LOEXT_SOL_R	934
Muscle Plantaris, NOS LowerExtremity Body	Musculus plantaris [Plantaris muscle, T-14750]	MDC_MUSC_LOEXT_PLANTAR	936
Muscle Plantaris, Left LowerExtremity Body	Musculus plantaris, Left [Plantaris muscle, Left, T-14750-LFT]	MDC_MUSC_LOEXT_PLANTAR_L	937
Muscle Plantaris, Right LowerExtremity Body	Musculus plantaris, Right [Plantaris muscle, Right, T-14750-RGT]	MDC_MUSC_LOEXT_PLANTAR_R	938
Muscle Popliteus, NOS LowerExtremity Body	Musculus popliteus [Popliteal muscle, T-14710]	MDC_MUSC_LOEXT_POPLIT	940
Muscle Popliteus, Left LowerExtremity Body	Musculus popliteus, Left [Popliteal muscle, Left, T-14710-LFT]	MDC_MUSC_LOEXT_POPLIT_L	941
Muscle Popliteus, Right LowerExtremity Body	Musculus popliteus, Right [Popliteal muscle, Right, T-14710-RGT]	MDC_MUSC_LOEXT_POPLIT_R	942
Muscle Tibialis, Posterior, NOS LowerExtremity Body	Musculus tibialis posterior [Tibialis posterior muscle, T-14770]	MDC_MUSC_LOEXT_TIBIAL_POST	944
Muscle Tibialis, Posterior, Left LowerExtremity Body	Musculus tibialis posterior, Left [Tibialis posterior muscle, Left, T-14770-LFT]	MDC_MUSC_LOEXT_TIBIAL_POST_L	945
Muscle Tibialis, Posterior, Right LowerExtremity Body	Musculus tibialis posterior, Right [Tibialis posterior muscle, Right, T-14770-RGT]	MDC_MUSC_LOEXT_TIBIAL_POST_R	946
Muscle Flexor, Digitorum, Longus, NOS LowerExtremity Body	Musculus flexor digitorum longus [Flexor digitorum longus muscle, T-14820]	MDC_MUSC_LOEXT_FLEX_DIGIT_LONG	948
Muscle Flexor, Digitorum, Longus, Left LowerExtremity Body	Musculus flexor digitorum longus, Left [Flexor digitorum longus muscle, Left, T-14820-LFT]	MDC_MUSC_LOEXT_FLEX_DIGIT_LONG_L	949

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles *(continued)*

Systematic name	Description/Definition	Reference ID	Code
Muscle Flexor, Digitorum, Longus, Right LowerExtremity Body	Musculus flexor digitorum longus, Right [Flexor digitorum longus muscle, Right, T-14820-RGT]	MDC_MUSC_LOEXT_FLEX_DIGIT_LONG_R	950
Muscle Extensor, Hallucis, Brevis, NOS LowerExtremity, Leg Body	Musculus extensor hallucis brevis [Extensor hallucis brevis muscle, T-14791]	MDC_MUSC_LOEXT_EXTENS_HALLUC_BREV	952
Muscle Extensor, Hallucis, Brevis, Left LowerExtremity, Leg Body	Musculus extensor hallucis brevis, Left [Extensor hallucis brevis muscle, Left, T-14791-LFT]	MDC_MUSC_LOEXT_EXTENS_HALLUC_BREV_L	953
Muscle Extensor, Hallucis, Brevis, Right LowerExtremity, Leg Body	Musculus extensor hallucis brevis, Right [Extensor hallucis brevis muscle, Right, T-14791-RGT]	MDC_MUSC_LOEXT_EXTENS_HALLUC_BREV_R	954
Muscle Extensor, Digitorum, Brevis, NOS LowerExtremity Body	Musculus extensor digitorum brevis [Extensor digitorum brevis muscle, T-14781]	MDC_MUSC_LOEXT_EXTENS_DIGIT_BREV	956
Muscle Extensor, Digitorum, Brevis, Left LowerExtremity Body	Musculus extensor digitorum brevis, Left [Extensor digitorum brevis muscle, Left, T-14781-LFT]	MDC_MUSC_LOEXT_EXTENS_DIGIT_BREV_L	957
Muscle Extensor, Digitorum, Brevis, Right LowerExtremity Body	Musculus extensor digitorum brevis, Right [Extensor digitorum brevis muscle, Right, T-14781-RGT]	MDC_MUSC_LOEXT_EXTENS_DIGIT_BREV_R	958
Muscle Abductor, Hallucis, NOS LowerExtremity Body	Musculus abductor hallucis [Abductor hallucis muscle, T-14990]	MDC_MUSC_LOEXT ABDUC_HALLUC	960
Muscle Abductor, Hallucis, Left LowerExtremity Body	Musculus abductor hallucis, Left [Abductor hallucis muscle, Left, T-14990-LFT]	MDC_MUSC_LOEXT ABDUC_HALLUC_L	961
Muscle Abductor, Hallucis, Right LowerExtremity Body	Musculus abductor hallucis, Right [Abductor hallucis muscle, Right, T-14990-RGT]	MDC_MUSC_LOEXT ABDUC_HALLUC_R	962
Muscle Flexor, Hallucis, Brevis, NOS LowerExtremity Body	Musculus flexor hallucis brevis [Flexor hallucis brevis muscle, T-14940]	MDC_MUSC_LOEXT_FLEX_HALLUC_BREV	964
Muscle Flexor, Hallucis, Brevis, Left LowerExtremity Body	Musculus flexor hallucis brevis, Left [Flexor hallucis brevis muscle, Left, T-14940-LFT]	MDC_MUSC_LOEXT_FLEX_HALLUC_BREV_L	965
Muscle Flexor, Hallucis, Brevis, Right LowerExtremity Body	Musculus flexor hallucis brevis, Right [Flexor hallucis brevis muscle, Right, T-14940-RGT]	MDC_MUSC_LOEXT_FLEX_HALLUC_BREV_R	966
Muscle Adductor, Hallucis, NOS LowerExtremity Body	Musculus adductor hallucis [Adductor hallucis muscle, T-14950]	MDC_MUSC_LOEXT_ADDUC_HALLUC	968

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles *(continued)*

Systematic name	Description/Definition	Reference ID	Code
Muscle Adductor, Hallucis, Left LowerExtremity Body	Musculus adductor hallucis, Left [Adductor hallucis muscle, Left, T-14950-LFT]	MDC_MUSC_LOEXT_ADDUC_HALLUC_L	969
Muscle Adductor, Hallucis, Right LowerExtremity Body	Musculus adductor hallucis [Adductor hallucis muscle, Right, T-14950-RGT]	MDC_MUSC_LOEXT_ADDUC_HALLUC_R	970
Muscle Abductor, Digiti, Minimi, NOS LowerExtremity Body	Musculus abductor digiti minimi [Abductor digiti minimi muscle of foot, T-14910]	MDC_MUSC_LOEXT_ABDUC_DIGIT_MIN	972
Muscle Abductor, Digiti, Minimi, Left LowerExtremity Body	Musculus abductor digiti minimi, Left [Abductor digiti minimi muscle of foot, Left, T-14910-LFT]	MDC_MUSC_LOEXT_ABDUC_DIGIT_MIN_L	973
Muscle Abductor, Digiti, Minimi, Right LowerExtremity Body	Musculus abductor digiti minimi [Abductor digiti minimi muscle of foot, Right, T-14910-RGT]	MDC_MUSC_LOEXT_ABDUC_DIGIT_MIN_R	974
Muscle Flexor, Digiti, Minimi, Brevis, NOS LowerExtremity Body	Musculus flexor digiti minimi brevis [Flexor digiti minimi brevis muscle of foot, T-14960]	MDC_MUSC_LOEXT_FLEX_DIGIT_BREV_MIN	976
Muscle Flexor, Digiti, Minimi, Brevis, Left LowerExtremity Body	Musculus flexor digiti minimi brevis, Left [Flexor digiti minimi brevis muscle of foot, Left, T-14960-LFT]	MDC_MUSC_LOEXT_FLEX_DIGIT_BREV_MIN_L	977
Muscle Flexor, Digiti, Minimi, Brevis, Right LowerExtremity Body	Musculus flexor digiti minimi brevis, Right [Flexor digiti minimi brevis muscle of foot, Right, T-14960-RGT]	MDC_MUSC_LOEXT_FLEX_DIGIT_BREV_MIN_R	978
Muscle Quadratus, Plantae, NOS LowerExtremity Body	Musculus quadratus plantae [Quadratus plantae muscle, T-14920]	MDC_MUSC_LOEXT_QUADRAT_PLANT	980
Muscle Quadratus, Plantae, Left LowerExtremity Body	Musculus quadratus plantae, Left [Quadratus plantae muscle, Left, T-14920-LFT]	MDC_MUSC_LOEXT_QUADRAT_PLANT_L	981
Muscle Quadratus, Plantae, Right LowerExtremity Body	Musculus quadratus plantae, Right [Quadratus plantae muscle, Right, T-14920-RGT]	MDC_MUSC_LOEXT_QUADRAT_PLANT_R	982
Muscle Lumbricales, NOS LowerExtremity Body	Musculi lunbricales [Lumbricales pedis muscle, T-14930]	MDC_MUSC_LOEXT_LUMBRICAL	984
Muscle Lumbricales, Left LowerExtremity Body	Musculi lunbricales, Left [Lumbricales pedis muscle, Left, T-14930-LFT]	MDC_MUSC_LOEXT_LUMBRICAL_L	985
Muscle Lumbricales, Right LowerExtremity Body	Musculi lunbricales, Right [Lumbricales pedis muscle, Right, T-14930-RGT]	MDC_MUSC_LOEXT_LUMBRICAL_R	986

Table A.8.3.1—Nomenclature and codes for sites for neurophysiological signal monitoring: locations near or in muscles *(continued)*

Systematic name	Description/Definition	Reference ID	Code
Muscle Interossei, Dorsales, NOS LowerExtremity Body	Musculus interossei dorsales [Interosseous dorsales muscles, T-14980]	MDC_MUSC_LOEXT_INTEROSS_DORSAL	988
Muscle Interossei, Dorsales, Left LowerExtremity Body	Musculus interossei dorsales, Left [Interosseous dorsales muscles, Left, T-14980-LFT]	MDC_MUSC_LOEXT_INTEROSS_DORSAL_L	989
Muscle Interossei, Dorsales, Right LowerExtremity Body	Musculus interossei dorsales, Right [Interosseous dorsales muscles, Right, T-14980-RGT]	MDC_MUSC_LOEXT_INTEROSS_DORSAL_R	990
Muscle Interossei, Plantares, NOS LowerExtremity Body	Musculus interossei plantares [Interosseous plantares muscles, T-14970]	MDC_MUSC_LOEXT_INTEROSS_PLANTAR	992
Muscle Interossei, Plantares, Left LowerExtremity Body	Musculus interossei plantares, Left [Interosseous plantares muscles, Left, T-14970-LFT]	MDC_MUSC_LOEXT_INTEROSS_PLANTAR_L	993
Muscle Interossei, Plantares, Right LowerExtremity Body	Musculus interossei plantares, Right [Interosseous plantares muscles, Right, T-14970-RGT]	MDC_MUSC_LOEXT_INTEROSS_PLANTAR_R	994

CID 30zz EOG Leads

This Context Group comprises the EOG lead identifiers of ISO/IEEE 11073-10101. The terms included in the table below may not constitute the complete list; see the ISO/IEEE Standard.

Note

Codes reprinted by permission of IEEE, Copyright 2004 by IEEE. ISO/IEEE 11073-10101 available through <http://standards.ieee.org>.

Resources: <....>
Type: Extensible
Version: 20040624

UID: <...>

Table CID 30zz EOG Leads

Coding Scheme	Code Value	Acronym	Code Meaning	ISO/IEEE 11073 MDC Equivalent Reference ID (Informative)
MDC	7:1320	E0	Electrode between the eyes, on the horizontal axis of the eyes.	MDC_EYE_AXIS_HORIZ
MDC	7:1325	EI1	Electrode above the center of the left eye.	MDC_EYE_CENT_ABOVE_L
MDC	7:1329	EI2	Electrode below the center of the left eye.	MDC_EYE_CENT_BELOW_L
MDC	7:1333	EI3	Electrode 1 cm above the left eye on the eyebrow, in the middle between the center point of the eye and the lateral canthus.	MDC_EYE_CANTH_LAT_ABOVE_MID_L
MDC	7:1337	EI4	Electrode directly below the left eye, in the middle between the center point of the eye and the lateral canthus.	MDC_EYE_CANTH_LAT_BELOW_MID_L
MDC	7:1341	EI5	Electrode slightly above the outer canthus of the left eye in the position suggested by the sleep stage scoring manual.	MDC_EYE_CANTH_OUTER_ABOVE_L
MDC	7:1345	EI6	Electrode slightly below the outer canthus of the left eye in the position suggested by the sleep stage scoring manual.	MDC_EYE_CANTH_OUTER_BELOW_L
MDC	7:1349	EI7	Electrode on the outer canthus of the left eye on the horizontal line through the center of the eyes.	MDC_EYE_CANTH_OUTER_CENTER_L
MDC	7:1354	Er1	Electrode above the center of the right eye.	MDC_EYE_CENT_ABOVE_R
MDC	7:1358	Er2	Electrode below the center of the right eye.	MDC_EYE_CENT_BELOW_R
MDC	7:1362	Er3	Electrode 1 cm above the right eye on the eyebrow, in the middle between the center point of the eye and the lateral canthus.	MDC_EYE_CANTH_LAT_ABOVE_R
MDC	7:1366	Er4	Electrode directly below the right eye, in the middle between the center point of the eye and the lateral canthus.	MDC_EYE_CANTH_LAT_BELOW_R
MDC	7:1370	Er5	Electrode slightly above the outer canthus of the right eye in the position suggested by the sleep stage scoring manual.	MDC_EYE_CANTH_OUTER_ABOVE_R
MDC	7:1374	Er6	Electrode slightly below the outer canthus of the right eye in the position suggested by the sleep stage scoring manual.	MDC_EYE_CANTH_OUTER_BELOW_R
MDC	7:1378	Er7	Electrode on the outer canthus of the right eye on the horizontal line through the center of the eyes.	MDC_EYE_CANTH_OUTER_CENTER_R
MDC	7:1381	EIL	Electrode or other sensor on the left eyelid.	MDC_EYE_EYELID_L
MDC	7:1386	ErL	Electrode or other sensor on the right eyelid.	MDC_EYE_EYELID_R

MDC	7:1389	Ela	Other electrode position near the left eye, above the horizontal axis of the eyes.	MDC_EYE_ABOVE_L
MDC	7:1393	Elb	Other electrode position near the left eye, above the horizontal axis of the eyes.	MDC_EYE_BELOW_L
MDC	7:1398	Era	Other electrode position near the right eye, above the horizontal axis of the eyes.	MDC_EYE_ABOVE_R
MDC	7:1402	Erb	Other electrode position near the right eye, below the horizontal axis of the eyes.	MDC_EYE_BELOW_R

CID 34xx EEG Annotations

CID 34yy EMG Annotations

CID 34zz EOG Annotations

ISO/IEEE 11073 – 10101 contains

- nomenclature, data dictionary, and codes for neurological monitoring measurements (Table A.7.8.1)
- nomenclature, data dictionary, and codes for neurophysiologic enumerations (Table A.7.9.1)
- nomenclature and codes for neurophysiologic stimulation modes (Table A.7.10.1)
- nomenclature, data dictionary, and codes for alerts, which can be used as systematic names for physiologic monitoring, providing both:
 - o Diagnostic pattern events: holds systematic names concerning patient-oriented events that are derived from physiologic signals, e.g., ECG, EEG. These events are triggered if specific diagnostic patterns are observed in the physiologic signal. (Table A.9.2.1)
 - o Device oriented events, like Error Events, Limit Events, Synchronization Event, Advisory (Table A.9.3.1)

The following provides copies of code lists in ISO/IEEE 11073 – 10101. Their use is strictly limited to the standardization work within DICOM WG 32.

Table A.7.8.1—Nomenclature and codes for neurological monitoring measurements

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
Circumference Head Body, CNS	Circum head		Circumference of the head	MDC_CIRCUM_HEAD	22784
Compliance Head, Intracranial CNS	Intracranial compliance		Change of volume per unit change of intracranial pressure. Measurement is carried out by measuring the change of intracranial pressure following the drainage of a defined small amount of cerebrospinal fluid or filling a balloon positioned inside skull with a small amount of air or water.	MDC_COMPL_INTRA_CRAN	22788
Diameter Pupil CNS	Pupil diameter		Diameter of the pupil	MDC_DIAM_PUPIL	22792
Diameter Pupil, LeftEye CNS	Pupil diameter left eye		Diameter of the pupil, left eye	MDC_DIAM_PUPIL_LEFT	22796
Diameter Pupil, RightEye CNS	Pupil diameter right eye		Diameter of the pupil, right eye	MDC_DIAM_PUPIL_RIGHT	22800
Duration BERA, InterPeak, Wave1Wave3 BrainStem CNS	Interpeak latency Wave 1 to Wave 3 in brainstem evoked potential		Time interval between crest of Wave 1 and crest of Wave 3 in brainstem acoustical evoked potential	MDC_TIME_PD_BERA_INTERPK_WV_1_TO_3	22804
Duration BERA, InterPeak, Wave1Wave5 BrainStem CNS	Interpeak latency Wave 1 to Wave 5 in brainstem evoked potential		Time interval between crest of Wave 1 and crest of Wave 5 in brainstem acoustical evoked potential	MDC_TIME_PD_BERA_INTERPK_WV_1_TO_5	22808
Duration BERA, InterPeak, Wave3Wave5 BrainStem CNS	Interpeak latency Wave 3 to Wave 5 in brainstem evoked potential		Time interval between crest of Wave 3 and crest of Wave 5 in brainstem acoustical evoked potential	MDC_TIME_PD_BERA_INTERPK_WV_3_TO_5	22812
Duration ReactionTime Pupil CNS			Reaction of pupils to light	MDC_TIME_PD_PUPIL_REACT	22816
Duration ReactionTime Pupil, LeftEye CNS			Reaction of pupils to light, left eye	MDC_TIME_PD_PUPIL_REACT_LEFT	22820
Duration ReactionTime Pupil, RightEye CNS			Reaction of pupils to light, right eye	MDC_TIME_PD_PUPIL_REACT_RIGHT	22824

Table A.7.8.1—Nomenclature and codes for neurological monitoring measurements (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
ElectricalPotential Cortex CNS	Electro-encephalogram	EEG	Electrical potential derived bipolyarly between two electrodes, Position 1 and Position 2 at head surface. A list attribute is used. The electrode at Position 1 is Number 1 in the list. Position 2 can be a combined reference, e.g., linked ear. All connected electrode sites are listed beginning with Number 2 in the list. The attribute values must be taken from the Table A.8.4.1.	MDC_EEG_ELEC_POTL_CRTX	22828
ElectricalPotential Eye CNS	Electro-oculogram	EOG	Electrical potential derived bipolyarly from electrode positions 1 and 2 in the neighborhood of eye. A list attribute is used. The attribute values must be taken from the Table A.8.5.1.	MDC_EOG_ELEC_POTL_EYE	22832
ElectricalPotential Eye, Nystagmus CNS	Electro-nystagmogram		Electrical potential of the eye derived differentially by electrode on Position 1 and Position 2. A list attribute is used. The attribute values must be taken from the Table A.8.5.1.	MDC_ENG_ELEC_POTL_EYE_NYSTAG	22836
ElectricalPotential Eye, Retina CNS	Electro-retinogram	ERG	Electrical potential of the eye derived bipolyarly between electrodes placed on bulbus	MDC_ERG_ELEC_POTL_RETIN_A	22840
ElectricalPotential Muscle MuscularSystem	Electromyogram	EMG	Electrical Potential from muscle derived bipolyarly between electrode Position 1 and Position 2 on skin surface or inside muscle. A list attribute is used. The attribute values must be taken from the Table A.8.3.1.	MDC_EMG_ELEC_POTL_MUSC	22844
ElectricalPotential BERA, Wave1, Amplitude BrainStem CNS	Amplitude Wave 1 brainstem evoked potential		Potential difference between crest and valley before or after crest of Wave 1 in brainstem acoustical evoked potential	MDC_ELEC_EVOK_POTL_BERA_AMPL_WV_1	22848
ElectricalPotential BERA, Wave2, Amplitude BrainStem CNS	Amplitude Wave 2 brainstem evoked potential		Potential difference between crest and valley before or after crest of Wave 2 in brainstem acoustical evoked potential	MDC_ELEC_EVOK_POTL_BERA_AMPL_WV_2	22852
ElectricalPotential BERA, Wave3, Amplitude BrainStem CNS	Amplitude Wave 3 brainstem evoked potential		Potential difference between crest and valley before or after crest of Wave 3 in brainstem acoustical evoked potential	MDC_ELEC_POTL_BERA_AMPL_WV_3	22856

Table A.7.8.1—Nomenclature and codes for neurological monitoring measurements (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
ElectricalPotential BERA, Wave4, Amplitude BrainStem CNS	Amplitude Wave 4 brainstem evoked potential		Potential difference between crest and valley before or after crest of Wave 4 in brainstem acoustical evoked potential (comment: a list attribute is used for describing measurement and stimulation; values possible: left, right, NOS.)	MDC_ELEC_POTL_BERA_AMPL_WV_4	22860
ElectricalPotential BERA, Wave5, Amplitude BrainStem CNS	Amplitude Wave 5 brainstem evoked potential		Potential difference between crest and valley before or after crest of Wave 5 in brainstem acoustical evoked potential	MDC_ELEC_POTL_BERA_AMPL_WV_5	22864
ElectricalPotential Evoked Cortex CNS	Evoked potential	EVP	Electrical potential, response to stimulation and mostly averaging, not specified	MDC_ELEC_EVOK_POTL_CRTX	22868
ElectricalPotential Evoked, Acoustic BrainStem CNS	Brainstem acoustical evoked potential	BERA	Electrical potential, response to acoustical stimulus, method averaging, early potentials	MDC_ELEC_EVOK_POTL_BSTEM_ACOUSTIC	22872
ElectricalPotential Evoked, Acoustic Cortex CNS	Acoustical evoked potential	AEP	Electrical potential, response to acoustical stimulus, method averaging, medium and late potentials	MDC_ELEC_EVOK_POTL_CRTX_ACOUSTIC	22876
ElectricalPotential Evoked, Magnetic Cortex CNS	Magnetic evoked potential		Electrical potential, response to magnetic stimulus	MDC_ELEC_EVOK_POTL_CRTX_MAG	22880
ElectricalPotential Evoked, Motoric Cortex CNS	Motoric evoked potential	MEP	Electrical potential, response to magnetic stimulus, method averaging; measured between electrode Position 1 and Position 2 on skin surface or inside muscle. A list attribute is used. The attribute values must be taken from the Table A.8.3.1.	MDC_ELEC_EVOK_POTL_CRTX_MOTOR	22884
ElectricalPotential Evoked, Somatosensory Cortex CNS	Somatosensory evoked potential	SEP	Electrical potential, response to electrical stimulation and averaging. See also A.8.4.	MDC_ELEC_EVOK_POTL_CRTX_SOMATOSENS	22888
ElectricalPotential Evoked, Visual Cortex CNS	Visual evoked potential	VEP	Electrical potential, response to visual stimulus, method averaging	MDC_ELEC_EVOK_POTL_CRTX_VIS	22892
ElectricalPotential InsideSkull Cortex CNS	Electro-corticogram	ECoG	Electrical potential derived bipolarly between two electrodes, Position 1 and Position 2 (attribute, textual) on cortex. Lead 2 can be a combined reference, e.g., linked ear. No standard lead system is known so far.	MDC_ELEC_POTL_CRTX_INSKULL	22896

Table A.7.8.1—Nomenclature and codes for neurological monitoring measurements (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
ElectricalPotential VEP, P100Amplitude Cortex CNS	Amplitude Wave P100 in visual evoked potential		Potential difference between crest and valley before or after crest of Wave P100 in visual evoked potential (comment: a list attribute is used for describing measurement and stimulation; values possible: left, right, NOS.)	MDC_ELEC_POTL_CRTX_AMPL_P100	22900
Flow Blood, Cerebral CNS	Cerebral blood flow		Transcranial cerebral blood flow	MDC_FLOW_BLD_CEREB	22904
Frequency EEG, PowerSpectrum, MeanDominantFrequency Cortex CNS	Mean dominant frequency of electro-encephalogram		Mean dominant frequency of Power spectrum of EEG measured between two electrodes, Position 1 and Position 2 at head surface. See also A.8.4.	MDC_EEG_FREQ_PWR_SPEC_CRTX_DOM_MEAN	22908
Frequency EEG, PowerSpectrum, MedianPowerFrequency Cortex CNS	Median power frequency of electro-encephalogram		Median power frequency of power spectrum of EEG measured between two electrodes, Position 1 and Position 2 at head surface. See also A.8.4.	MDC_EEG_FREQ_PWR_SPEC_CRTX_MEDIAN	22912
Frequency EEG, PowerSpectrum, PeakPowerFrequency Cortex CNS	Peak power frequency of electro-encephalogram		Peak power frequency of power spectrum of EEG measured between two electrodes, Position 1 and Position 2 at head surface. See also A.8.4.	MDC_EEG_FREQ_PWR_SPEC_CRTX_PEAK	22916
Frequency EEG, PowerSpectrum, SpectralEdgeFrequency Cortex CNS	Spectral edge frequency of electro-encephalogram		Spectral edge frequency of power spectrum of EEG measured between two electrodes, Position 1 and Position 2 at head surface. See also A.8.4.	MDC_EEG_FREQ_PWR_SPEC_CRTX_SPECTRAL_EDGE	22920
Latency BERA, Wave1 BrainStem CNS	Latency Wave 1 brainstem evoked potential		Time interval between stimulus and crest of Wave 1 in brainstem acoustical evoked potential	MDC_LATENCY_BSTEM_EVOK_POTL_WV_1	22924
Latency BERA, Wave2 BrainStem CNS	Latency Wave 2 brainstem evoked potential		Time interval between stimulus and crest of Wave 2 in brainstem acoustical evoked potential	MDC_LATENCY_BSTEM_EVOK_POTL_WV_2	22928
Latency BERA, Wave3 BrainStem CNS	Latency Wave 3 brainstem evoked potential		Time interval between stimulus and crest of Wave 3 in brainstem acoustical evoked potential	MDC_LATENCY_BSTEM_EVOK_POTL_WV_3	22932

Table A.7.8.1—Nomenclature and codes for neurological monitoring measurements (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
Latency BERA, Wave4 BrainStem CNS	Latency Wave 4 brainstem evoked potential		Time interval between stimulus and crest of Wave 4 in brainstem acoustical evoked potential	MDC_LATENCY_BSTEM_EVOK_POTL_WV_4	22936
Latency BERA, Wave5 BrainStem CNS	Latency Wave 5 brainstem evoked potential		Time interval between stimulus and crest of Wave 5 in brainstem acoustical evoked potential	MDC_LATENCY_BSTEM_EVOK_POTL_WV_5	22940
Latency VEP, P100 Cortex CNS	Latency Wave P100 in visual evoked potential		Time interval between stimulus and crest of Wave P100 in visual evoked potential	MDC_LATENCY_VEP_WV_P100	22944
MagneticField Cortex CNS	Magneto-encephalogram	MEG	Magnetic field measured above surface of head, representing neurogenic activity in brain	MDC_MEG_MAGFLD	22948
Number EEG Arousal Neurology, CNS	Arousal		Arousal, short awakenings, as determined out of the EEG, EOG, and EMG	MDC_EEG_NUM_AROUS	22952
Number EEG Spikes Neurology, CNS	Spikes		Spikes, as determined out of the EEG	MDC_EEG_NUM_SPK	22956
Number EEG Seizures Neurology, CNS	Seizures		Seizures, as determined out of the EEG, EOG, and EMG	MDC_EEG_NUM_SEIZ	22960
Power EEG, PowerSpectrum Cortex CNS	Compressed spectral array of electro-encephalogram	CSA	Power spectrum of EEG measured between two electrodes, position 1 and 2 at head surface. A list attribute is used. See also A.8.4.	MDC_EEG_PWR_SPEC_CSA	22964
Power EEG, PowerSpectrum, TotalPower Cortex CNS	Total power of electro-encephalogram		Total power of spectrum of EEG measured between two electrodes, Position 1 and Position 2 at head surface. A list attribute is used. See also A.8.4.	MDC_EEG_PWR_SPEC_TOT	22968
Power EEG, PowerSpectrum, AlphaBand, AbsolutePower Cortex CNS	Absolute power of alpha band of electro-encephalogram		Absolute power of alpha band of power spectrum of EEG measured between two electrodes, Position 1 and Position 2 at head surface. A list attribute is used. See also A.8.4.	MDC_EEG_PWR_SPEC_ALPHA_ABS	22972
Power EEG, PowerSpectrum, BetaBand, AbsolutePower Cortex CNS	Absolute power of beta band of electro-encephalogram		Absolute power of beta band of power spectrum of EEG measured between two electrodes, Position 1 and Position 2 at head surface. A list attribute is used. See also A.8.4.	MDC_EEG_PWR_SPEC_BETA_ABS	22976

Table A.7.8.1—Nomenclature and codes for neurological monitoring measurements (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
Power EEG, PowerSpectrum, DeltaBand, AbsolutePower Cortex CNS	Absolute power of delta band of electro-encephalogram		Absolute power of delta band of power spectrum of EEG measured between two electrodes, Position 1 and Position 2 at head surface. A list attribute is used. See also A.8.4.	MDC_EEG_PWR_SPEC_DELTA_ABS	22980
Power EEG, PowerSpectrum, ThetaBand, AbsolutePower Cortex CNS	Absolute power of theta band of electro-encephalogram		Absolute power of theta band of power spectrum of EEG measured between two electrodes, Position 1 and Position 2 at head surface. A list attribute is used. See also A.8.4.	MDC_EEG_PWR_SPEC_THETA_ABS	22984
Power EEG, PowerSpectrum, SigmaBand, AbsolutePower Cortex CNS	Absolute power of sigma band of electro-encephalogram		Absolute power of sigma band of power spectrum of EEG measured between two electrodes, Position 1 and Position 2 at head surface. A list attribute is used. See also A.8.4.	MDC_EEG_PWR_SPEC_SIGMA_ABS	22988
Power EEG, PowerSpectrum, GammaBand, AbsolutePower Cortex CNS	Absolute power of gamma band of electro-encephalogram		Absolute power of gamma band of power spectrum of EEG measured between two electrodes, Position 1 and Position 2 at head surface. A list attribute is used. See also A.8.4.	MDC_EEG_PWR_SPEC_GAMMA_ABS	22992
Power EEG, PowerSpectrum, AlphaBand, RelativePower Cortex CNS	Relative power of alpha band of electro-encephalogram		Relative power of alpha band of power spectrum of EEG measured between two electrodes, Position 1 and Position 2 at head surface. A list attribute is used. See also A.8.4.	MDC_EEG_PWR_SPEC_ALPHA_REL	22996
Power EEG, PowerSpectrum, BetaBand, RelativePower Cortex CNS	Relative power of beta band of electro-encephalogram		Relative power of beta band of power spectrum of EEG measured between two electrodes, Position 1 and Position 2 at head surface. A list attribute is used. See also A.8.4.	MDC_EEG_PWR_SPEC_BETA_REL	23000
Power EEG, PowerSpectrum, DeltaBand, RelativePower Cortex CNS	Relative power of delta band of electro-encephalogram		Relative power of delta band of power spectrum of EEG measured between two electrodes, Position 1 and Position 2 at head surface. A list attribute is used. See also A.8.4.	MDC_EEG_PWR_SPEC_DELTA_REL	23004
Power EEG, PowerSpectrum, ThetaBand, RelativePower Cortex CNS	Relative power of theta band of electro-encephalogram		Relative power of theta band of power spectrum of EEG measured between two electrodes, Position 1 and Position 2 at head surface. A list attribute is used. See also A.8.4.	MDC_EEG_PWR_SPEC_THETA_REL	23008

Table A.7.8.1—Nomenclature and codes for neurological monitoring measurements (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
Power EEG, PowerSpectrum, SigmaBand, RelativePower Cortex CNS	Relative power of sigma band of electroencephalogram		Relative power of sigma band of power spectrum of EEG measured between two electrodes, Position 1 and Position 2 at head surface. A list attribute is used. See also A.8.4.	MDC_EEG_PWR_SPEC_SIGMA_REL	23012
Power EEG, PowerSpectrum, GammaBand, RelativePower Cortex CNS	Relative power of gamma band of electroencephalogram		Relative power of gamma band of power spectrum of EEG measured between two electrodes, Position 1 and Position 2 at head surface. A list attribute is used. See also A.8.4.	MDC_EEG_PWR_SPEC_GAMMA_REL	23016
Pressure Head, Intracranial CNS	Intracranial pressure	ICP	Pressure inside skull	MDC_PRESS_INTRA_CRAN	22536
Pressure Mean Head, Intracranial CNS	Mean intracranial pressure	ICPM	Mean pressure inside skull	MDC_PRESS_INTRA_CRAN_MEAN	22539
Pressure Systolic Head, Intracranial CNS	Systolic intracranial pressure	ICPS	Maximum pressure inside skull, caused by filling of vessels during systolic phase of blood pressure	MDC_PRESS_INTRA_CRAN_SYS	22537
Pressure Diastolic Head, Intracranial CNS	Diastolic intracranial pressure	ICPD	Minimum pressure inside skull, caused by emptying of vessels during diastolic phase of blood pressure	MDC_PRESS_INTRA_CRAN_DIA	22538
Pressure Difference(MeanArterial, MeanIntracranial) Head, Intracranial CNS	Cerebral perfusion pressure	CPP	Pressure difference between mean arterial pressure and mean pressure inside skull	MDC_PRESS_CEREB_PERF	22532
Pressure Epidural Head, Intracranial CNS	Epidural pressure	ICPE	Pressure inside skull outside dura	MDC_PRESS_INTRA_CRAN_EPIDURAL	22540
Pressure Epidural, Mean Head, Intracranial CNS	Mean epidural pressure	ICPEM	Mean pressure inside skull outside dura	MDC_PRESS_INTRA_CRAN_EPIDURAL_MEAN	22543
Pressure Epidural, Systolic Head, Intracranial CNS	Systolic epidural pressure	ICPES	Maximum pressure inside skull outside dura, caused by filling of vessels during systolic phase of blood pressure	MDC_PRESS_INTRA_CRAN_EPIDURAL_SYS	22541
Pressure Epidural, Diastolic Head, Intracranial CNS	Diastolic epidural pressure	ICPED	Minimum pressure inside skull outside dura, caused by emptying of vessels during diastolic phase of blood pressure	MDC_PRESS_INTRA_CRAN_EPIDURAL_DIA	22542

Table A.7.8.1—Nomenclature and codes for neurological monitoring measurements (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
Pressure Subdural Head, Intracranial CNS	Subdural pressure	ICPS	Pressure inside skull inside dura	MDC_PRESS_INTRA_CRAN_SUBDURAL	22544
Pressure Subdural, Mean Head, Intracranial CNS	Mean subdural pressure	ICPSM	Mean pressure inside skull inside dura	MDC_PRESS_INTRA_CRAN_SUBDURAL_MEAN	22547
Pressure Subdural, Systolic Head, Intracranial CNS	Systolic subdural pressure	ICPSS	Maximum pressure inside skull inside dura, caused by filling of vessels during systolic phase of blood pressure	MDC_PRESS_INTRA_CRAN_SUBDURAL_SYS	22545
Pressure Subdural, Diastolic Head, Intracranial CNS	Diastolic subdural pressure	ICPSD	Minimum pressure inside skull inside dura, caused by emptying of vessels during diastolic phase of blood pressure	MDC_PRESS_INTRA_CRAN_SUBDURAL_DIA	22546
Pressure Tissue Head, Intracranial CNS	Intracranial tissue pressure	ICPT	Pressure inside skull inside brain tissue	MDC_PRESS_INTRA_CRAN_TISS	22548
Pressure Tissue, Mean Head, Intracranial CNS	Mean intracranial tissue pressure	ICPTM	Mean pressure inside skull inside brain tissue	MDC_PRESS_INTRA_CRAN_TISS_MEAN	22551
Pressure Systolic Head, Intracranial CNS	Systolic intracranial pressure	ICPTS	Maximum pressure inside skull inside brain tissue, caused by filling of vessels during systolic phase of blood pressure	MDC_PRESS_INTRA_CRAN_TISS_SYS	22549
Pressure Diastolic Head, Intracranial CNS	Diastolic intracranial pressure	ICPTD	Minimum pressure inside skull inside brain tissue, caused by emptying of vessels during diastolic phase of blood pressure	MDC_PRESS_INTRA_CRAN_TISS_DIA	22550
Pressure Ventricular Head, Intracranial CNS	Ventricular pressure	ICPV	Pressure inside skull inside ventricle	MDC_PRESS_INTRA_CRAN_VENT	22552
Pressure Ventricular, Mean Head, Intracranial CNS	Mean ventricular pressure	ICPVM	Mean pressure inside skull inside ventricle	MDC_PRESS_INTRA_CRAN_VENT_MEAN	22555
Pressure Ventricular, Systolic Head, Intracranial CNS	Systolic ventricular pressure	ICPVS	Maximum pressure inside skull inside ventricle, caused by filling of vessels during systolic phase of blood pressure	MDC_PRESS_INTRA_CRAN_VENT_SYS	22553
Pressure Ventricular, Diastolic Head, Intracranial CNS	Diastolic ventricular pressure	ICPVD	Minimum pressure inside skull inside ventricle, caused by emptying of vessels during diastolic phase of blood pressure	MDC_PRESS_INTRA_CRAN_VENT_DIA	22554

Table A.7.8.1—Nomenclature and codes for neurological monitoring measurements *(continued)*

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
Score GlasgowComaScore CNS State CNS	Glasgow coma score	GCS	Score that monitors the neurologic status and probable outcome of patient	MDC_SCORE_GLAS_COMA	22656
Score GlasgowComaScore, SubscoreEye CNS State CNS	Glasgow coma score, eye	GCSE	Subscore for visual reactions of score that monitors the neurologic status and probable outcome of patient	MDC_SCORE_EYE_SUBSC_GLAS_COMA	22658
Score GlasgowComaScore, SubscoreMotoric CNS State CNS	Glasgow coma score, motoric	GCSM	Subscore for motoric reactions of score that monitors the neurologic status and probable outcome of patient	MDC_SCORE_MOTOR_SUBSC_GLAS_COMA	22659
Score GlasgowComaScore, SubscoreVerbal CNS State CNS	Glasgow coma score, verbal	GCSV	Subscore for verbal reactions of score that monitors the neurologic status and probable outcome of patient	MDC_SCORE_SUBSC_VERBAL_GLAS_COMA	22660
Score GlasgowComaScore, Sum CNS State CNS	Glasgow coma score	GCSS	Sum of subscores for score that monitors the neurologic status and probable outcome of patient	MDC_SCORE_SUBSC_SUM_GLAS_COMA	22657
Score Sleepstage, EEG CNS State CNS	Sleep stage		Sleep stage determined out of the EEG, EOG, and EMG, sleep depth	MDC_EEG_SCORE_SLEEPSTG	22664

Table A.7.9.1—Nomenclature and codes for neurophysiologic enumerations

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
Pattern Background, Unspecified Cortex, EEG CNS	Background activity		Background activity description, unspecified	MDC_EEG_BKGD_CRTX	23560
Pattern Background, BetaActivity Cortex, EEG CNS	Background activity beta		Background activity description, beta activity	MDC_EEG_BKGD_CRTX_ACTIV_BETA	23568
Pattern Background, SigmaActivity Cortex, EEG CNS	Background activity sigma		Background activity description, sigma activity	MDC_EEG_BKGD_CRTX_ACTIV_SIGMA	23576
Pattern Background, GammaActivity Cortex, EEG CNS	Background activity gamma		Background activity description, gamma activity	MDC_EEG_BKGD_CRTX_ACTIV_GAMMA	23584
Pattern Background, AlphaActivity Cortex, EEG CNS	Background activity alpha		Background activity description, alpha activity	MDC_EEG_BKGD_CRTX_ACTIV_ALPHA	23592
Pattern Background, MuActivity Cortex, EEG CNS	Background Mu activity		Background activity, mu activity	MDC_EEG_BKGD_CRTX_ACTIV_MU	23600
Pattern Background, ThetaActivity Cortex, EEG CNS	Background activity theta		Background activity, theta activity	MDC_EEG_BKGD_CRTX_ACTIV_THETA	23608
Pattern Background, BisynchronousThetaActivity Cortex, EEG CNS	Background activity bisynchronous theta		Background activity, bisynchronous theta activity	MDC_EEG_BKGD_CRTX_ACTIV_THETA_BISYNC	23616
Pattern Background, DeltaActivity Cortex, EEG CNS	Background activity delta		Background activity description, delta activity	MDC_EEG_BKGD_CRTX_ACTIV_DELTA	23624
Pattern Background, BisynchronousDeltaActivity Cortex, EEG CNS	Background activity bisynchronous delta		Background activity description, bisynchronous delta activity	MDC_EEG_BKGD_CRTX_ACTIV_DELTA_BISYNC	23632
Pattern Background, ArrhythmicDeltaActivity Cortex, EEG CNS	Background activity arrhythmic delta		Background activity description, arrhythmic delta activity	MDC_EEG_BKGD_CRTX_ACTIV_ARRHY_DELTA	23640
Pattern Background, SlowFusedTransients Cortex, EEG CNS	Background activity slow fused transients		Background activity description, slow fused transients	MDC_EEG_BKGD_CRTX_TRANS_FUSED_SLOW	23648

Table A.7.9.1—Nomenclature and codes for neurophysiologic enumerations (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
Pattern Classification, UnspecifiedSleepStage Cortex, EEG CNS	Sleep stage unspecified		Sleep state description, unspecified	MDC_EEG_CLS_CRTX_SLP_STG	23656
Pattern Classification, Unstageable Cortex, EEG CNS	Sleep stage unstageable		Sleep state description, unstageable, movement time	MDC_EEG_CLS_CRTX_UNSTGABLE	23664
Pattern Classification, StageWake, Cortex, EEG CNS	Sleep stage wake		Sleep state description, stage wake	MDC_EEG_CLS_CRTX_WAKE_STG	23672
Pattern Classification, REMsleep Cortex, EEG CNS	Sleep stage REM		Sleep state description, REM sleep	MDC_EEG_CLS_CRTX_SLP_REM	23680
Pattern Classification, REMspindleSleep Cortex, EEG CNS	Sleep stage REM with sleep spindle		Sleep state description, REM-spindle sleep	MDC_EEG_CLS_CRTX_SLP_REM_SPINDLE	23688
Pattern Classification, SleepStageI Cortex, EEG CNS	Sleep Stage I		Sleep state description, Stage I sleep	MDC_EEG_CLS_CRTX_SLP_STG_I	23696
Pattern Classification, SleepStageII Cortex, EEG CNS	Sleep Stage II		Sleep state description, Stage II sleep	MDC_EEG_CLS_CRTX_SLP_STG_II	23704
Pattern Classification, SleepStageIII Cortex, EEG CNS	Sleep Stage III		Sleep state description, Stage III sleep	MDC_EEG_CLS_CRTX_SLP_STG_III	23712
Pattern Classification, SleepStageIV Cortex, EEG CNS	Sleep stage IV		Sleep state description, Stage IV sleep	MDC_EEG_CLS_CRTX_SLP_STG_IV	23720
Pattern Classification, AlphaDeltaSleep Cortex, EEG CNS	Alphadelta Sleep		Sleep state description, alpha-delta sleep	MDC_EEG_CLS_CRTX_SLP_STG_ALPHA_DELTA	23728
Pattern Classification, SleepActivity Cortex, EEG CNS	Sleep activity and event		Sleep activity and event description, sleep activity	MDC_EEG_CLS_CRTX_SLP_ACTIV	23736
Pattern Classification, SleepSpindle Cortex, EEG CNS	Sleep spindle		Sleep activity and event description, sleep spindle	MDC_EEG_CLS_CRTX_SLP_SPINDLE	23744
Pattern Classification, V_Wave Cortex, EEG CNS	Sleep V wave		Sleep activity and event description, V waves	MDC_EEG_CLS_CRTX_WV_V	23752
Pattern Classification, F_Wave Cortex, EEG CNS	Sleep F wave		Sleep activity and event description, F waves	MDC_EEG_CLS_CRTX_WV_F	23760

Table A.7.9.1—Nomenclature and codes for neurophysiologic enumerations (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
Pattern Classification, K_Complex Cortex, EEG CNS	Sleep K complex		Sleep activity and event description, K complexes	MDC_EEG_CLS_CRTX_CMPLX_K	23768
Pattern Classification, PostOccipitalSharpTransient Cortex, EEG CNS	Sleep post occipital sharp transient		Sleep activity and event, postoccipital sharp transients	MDC_EEG_CLS_CRTX_POSTOCCIP_TRANS_SHARP	23776
Pattern Classification, SawToothWave Cortex, EEG CNS	Sleep sawtooth wave		Sleep activity and event description, sawtooth waves	MDC_EEG_CLS_CRTX_WV_SAW	23784
Pattern Classification, SleepStageShift Cortex, EEG CNS	Sleep stage shift		Sleep activity and event description, sleep stage shifts	MDC_EEG_CLS_CRTX_SLP_STG_SHIFT	23792
Pattern Classification, Arousal Cortex, EEG CNS	Sleep arousal		Sleep activity and event description, arousals	MDC_EEG_CLS_CRTX_AROUSAL	23800
Pattern Classification, Awakening Cortex, EEG CNS	Sleep awakening		Sleep activity and event description, awakenings	MDC_EEG_CLS_CRTX_AWAKENING	23808
Pattern ParoxysmalActivity, UnspecifiedEpileptiformDischarge Cortex, EEG CNS	Sharp appearing or epileptiform activity		Sharp appearing or epileptiform activity, unspecified epileptiform discharges	MDC_EEG_PAROX_CRTX_DISCHG_EPILEP	23816
Pattern ParoxysmalActivity, SharpTransient Cortex, EEG CNS	Sharp transient		Sharp appearing or epileptiform activity, sharp transients	MDC_EEG_PAROX_CRTX_TRANS_SHARP	23824
Pattern ParoxysmalActivity, Wicket Cortex, EEG CNS	Wicket		Sharp appearing or epileptiform activity, wickets	MDC_EEG_PAROX_CRTX_WICKET	23832
Pattern ParoxysmalActivity, SmallSharpSpike Cortex, EEG CNS	Small sharp spike		Sharp appearing or epileptiform, small sharp spikes	MDC_EEG_PAROX_CRTX_SPK_SHARP_SMALL	23840
Pattern ParoxysmalActivity, ZetaWave Cortex, EEG CNS	Zeta wave		Sharp appearing or epileptiform, zeta waves	MDC_EEG_PAROX_CRTX_WV_ZETA	23848
Pattern ParoxysmalActivity, TriphasicWave Cortex, EEG CNS	Triphasic wave		Sharp appearing or epileptiform activity, triphasic waves	MDC_EEG_PAROX_CRTX_WV_TRIPHAS	23856
Pattern ParoxysmalActivity, PhantomSpikeAndWaveActivity Cortex, EEG CNS	Phantom spike and wave activity		Sharp appearing or epileptiform activity, phantom spike and wave activity	MDC_EEG_PAROX_CRTX_SPK_AND_WV_PHANTOM	23864

Table A.7.9.1—Nomenclature and codes for neurophysiologic enumerations (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
Pattern ParoxysmalActivity, 14And6HzPositiveBursts Cortex, EEG CNS	14 and 6 Hz positive bursts		Sharp appearing or epileptiform activity, 14 and 6 Hz positive bursts	MDC_EEG_PAROX_CRTX_BURST_POS_14_AND_6HZ	23872
Pattern ParoxysmalActivity, LambdaWave Cortex, EEG CNS	Lambda wave		Sharp appearing or epileptiform activity	MDC_EEG_PAROX_CRTX_WV_LAMBDA	23880
Pattern ParoxysmalActivity, UnspecificIctalDischarge Cortex, EEG CNS	Epileptic or potentially epileptogenic activity		Epileptic or potentially epileptogenic activity identifiers, unspecific ictal discharges	MDC_EEG_PAROX_CRTX_DISCHG	23888
Pattern ParoxysmalActivity, SharpWave Cortex, EEG CNS	Epileptic or potentially epileptogenic sharp wave		Epileptic or potentially epileptogenic activity identifiers, sharp waves	MDC_EEG_PAROX_CRTX_WV_SHARP	23896
Pattern ParoxysmalActivity, Spike Cortex, EEG CNS	Epileptic or potentially epileptogenic spike		Epileptic or potentially epileptogenic activity identifiers, spikes	MDC_EEG_PAROX_CRTX_SPK	23904
Pattern ParoxysmalActivity, MultipleSpikes Cortex, EEG CNS	Multiple spike		Epileptic or potentially epileptogenic activity identifiers, multiple spikes	MDC_EEG_PAROX_CRTX_SPK_MULT	23912
Pattern ParoxysmalActivity, SpikeAndWaveComplex Cortex, EEG CNS	Spike and wave complex		Epileptic or potentially epileptogenic activity identifiers, spike and wave complexes	MDC_EEG_PAROX_CRTX_SPK_AND_WV_CMPLX	23920
Pattern ParoxysmalActivity, AtypicalSpikeAndWaveComplex Cortex, EEG CNS	Atypical spike and wave complex		Epileptic or potentially epileptogenic activity identifiers, atypical spike and wave complexes	MDC_EEG_PAROX_CRTX_SPK_AND_WV_CMPLX_ATYP	23928
Pattern ParoxysmalActivity, SharpAndSlowWaveComplex Cortex, EEG CNS	Sharp and slow wave complex		Epileptic or potentially epileptogenic activity identifiers, sharp and slow wave complexes	MDC_EEG_PAROX_CRTX_WV_CMPLX_SHARP_SLOW	23936
Pattern ParoxysmalActivity, RhythmicSharpWaves Cortex, EEG CNS	Rhythmic sharp waves		Epileptic or potentially epileptogenic activity identifiers, rhythmic sharp waves	MDC_EEG_PAROX_CRTX_WV_RHYTHMIC_MULT_SHARP	23944
Pattern ParoxysmalActivity, BurstSuppression Cortex, EEG CNS	Burst suppression		Epileptic or potentially epileptogenic activity identifiers, burst suppression	MDC_EEG_PAROX_CRTX_BURST_SUPPRN	23952

Table A.7.9.1—Nomenclature and codes for neurophysiologic enumerations (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
Pattern ParoxysmalActivity, MultipleIndependentSpikesAndAsynchronousSlow Cortex, EEG CNS	Multiple independent spikes and asynchronous slow waves		Epileptic or potentially epileptogenic activity identifiers, multiple independent spikes and asynchronous slow (hypsarrhythmia)	MDC_EEG_PAROX_CRTX_SPK_MULT_AND_ASYNC_SLOW	23960
Pattern ParoxysmalActivity, UnspecifiedPeriodicCerebralActivity Cortex, EEG CNS	Periodic and quasiperiodic cerebral activity		Cont. moderate frequency periodic epileptiform discharges, unspecified periodic cerebral activity	MDC_EEG_PAROX_CRTX_CEREB_ACTIV_PERI	23968
Pattern ParoxysmalActivity, QuasiperiodicTriphasicWaves Cortex, EEG CNS	Quasiperiodic triphasic waves		Cont. moderate frequency periodic epileptiform discharges, quasiperiodic triphasic waves	MDC_EEG_PAROX_CRTX_WV_TRIPHAS_MULT_QUASIPERI	23976
Pattern ParoxysmalActivity, PeriodicTriphasicWaves Cortex, EEG CNS	Periodic triphasic waves		Cont. moderate frequency periodic epileptiform discharges, periodic triphasic waves	MDC_EEG_PAROX_CRTX_WV_TRIPHAS_MULT_PERI	23984
Pattern ParoxysmalActivity, PeriodicEpileptiformDischarges Cortex, EEG CNS	Periodic epileptiform discharges		Cont. moderate frequency periodic epileptiform discharges, periodic epileptiform discharges	MDC_EEG_PAROX_CRTX_DISCHG_EPILEP_MULT_PERI	23992
Pattern ParoxysmalActivity, PeriodicComplexes Cortex, EEG CNS	Periodic cerebral complexes		Cont. moderate frequency periodic epileptiform discharges, Periodic complexes	MDC_EEG_PAROX_CRTX_CMPLX_MULT_PERI	24000
Pattern ParoxysmalActivity, QuasiperiodicSharpWaves Cortex, EEG CNS	Quasiperiodic cerebral sharp waves		Cont. moderate frequency periodic epileptiform discharges, quasiperiodic sharp waves	MDC_EEG_PAROX_CRTX_WV_MULT_SHARP_QUASIPERI	24008
Pattern ParoxysmalActivity, PeriodicSharpWaves Cortex, EEG CNS	Periodic sharp waves		Cont. moderate frequency periodic epileptiform discharges, periodic sharp waves	MDC_EEG_PAROX_CRTX_WV_MULT_SHARP_PERI	24016
Pattern ParoxysmalActivity, PeriodicSuppressions Cortex, EEG CNS	Periodic suppressions		Cont. moderate frequency periodic epileptiform discharges, periodic suppressions	MDC_EEG_PAROX_CRTX_SUPPRN_MULT_PERI	24024
Pattern ParoxysmalActivity, PeriodicBurstsWithSuppressions Cortex, EEG CNS	Periodic bursts with suppressions		Cont. moderate frequency periodic epileptiform discharges, periodic bursts with suppressions	MDC_EEG_PAROX_CRTX_BURST_W_SUPPRN_MULT_PERI	24032

Table A.7.9.1—Nomenclature and codes for neurophysiologic enumerations (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
Pattern ExternallyInfluenced, UnspecifiedEyeMovements Cortex, EEG CNS	Eye-related activity		Eye-related activity in the EEG, unspecified eye movements	MDC_EEG_EXT_CRTX_EYE_MVMT_MULT	24040
Pattern ExternallyInfluenced, EyeBlink Cortex, EEG CNS	Eye blinks		Eye-related activity in the EEG, eye blinks	MDC_EEG_EXT_CRTX_EYE_BLINK	24048
Pattern ExternallyInfluenced, NystagmoidEyeMovements Cortex, EEG CNS	Nystagmoid eye movements		Eye-related activity in the EEG, nystagmoid eye movements	MDC_EEG_EXT_CRTX_EYE_MVMT_NYSTAG_MULT	24056
Pattern ExternallyInfluenced, SlowEyeMovements Cortex, EEG CNS	Slow eye movements		Eye-related activity in the EEG, slow eye movements	MDC_EEG_EXT_CRTX_EYE_MVMT_NYSTAG_MULT	24064
Pattern ExternallyInfluenced, FastIrregularEyeMovements Cortex, EEG CNS	Fast irregular eye movements		Eye-related activity in the EEG, fast irregular eye movements	MDC_EEG_EXT_CRTX_EYE_MVMT_MULT_FAST_IRREG	24072
Pattern ExternallyInfluenced, RapidEyeMovements Cortex, EEG CNS	Rapid eye movements		Eye-related activity in the EEG, rapid eye movements	MDC_EEG_EXT_CRTX_EYE_MVMT_MULT_RAPID	24080
Pattern ExternallyInfluenced, PhotocDrivingActivity Cortex, EEG CNS	Eye-related photodriving activity		Eye-related activity in the EEG, photic driving activity	MDC_EEG_EXT_CRTX_EYE_ACTIV_PHOTIC_DRV	24088
Pattern ExternallyInfluenced, PhotomyogenicActivity Cortex, EEG CNS	Eye-related photomyogenic activity		Eye-related activity in the EEG, photomyogenic activity	MDC_EEG_EXT_CRTX_EYE_ACTIV_PHOTOMYOGENIC	24096
Pattern ExternallyInfluenced, PhotoparadoxsmaActivity Cortex, EEG CNS	Eye-related photoparadoxsma activity		Eye-related activity in the EEG, photoparadoxsma activity	MDC_EEG_EXT_CRTX_EYE_ACTIV_PHOTOPARADOX	24104
Pattern ExternallyInfluenced, Electroretinogram Cortex, EEG CNS	Eye-related activity electroretinogram		Eye-related activity, electroretinogram	MDC_EEG_EXT_CRTX_EYE_ERG	24112
Pattern ExternallyInfluenced, UnspecifiedMyogenicActivity NonCortex, EEG CNS	Myogenic noncerebral activity		Myogenic noncerebral activity, unspecified myogenic activity	MDC_EEG_EXT_ACTIV_MYOGENIC	24120

Table A.7.9.1—Nomenclature and codes for neurophysiologic enumerations (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
Pattern ExternallyInfluenced, PalatalMyoclonus NonCortex, EEG CNS	Myogenic palatal myoclonus		Myogenic noncerebral activity, palatal myoclonus	MDC_EEG_EXT_PALATAL_MYOCLOLUS	24128
Pattern ExternallyInfluenced, Myokymia NonCortex, EEG CNS	Myogenic noncerebral myokymia		Myogenic noncerebral activity, myokymia	MDC_EEG_EXT_MYOKYMIA	24136
Pattern ExternallyInfluenced, FaciaSynkinesis NonCortex, EEG CNS	Myogenic noncerebral facial synkinesis		Myogenic noncerebral activity, facial synkinesis	MDC_EEG_EXT_FACIA_SYNKINESIS	24144
Pattern ExternallyInfluenced, HemifacialSpasms NonCortex, EEG CNS	Myogenic hemifacial spasms		Myogenic noncerebral activity, hemifacial spasms	MDC_EEG_EXT_HEMIFACIAL_SPASM	24152
Pattern ExternallyInfluenced, ExtraocularMuscleActivity NonCortex, EEG CNS	Extraocular muscle activity		Myogenic noncerebral activity, extraocular muscle activity	MDC_EEG_EXT_EXTRA_OCUL_MUSCL_ACTIV	24160
Pattern ExternallyInfluenced, TremorActivity NonCortex, EEG CNS	Myogenic tremor activity		Myogenic noncerebral activity, tremor activity	MDC_EEG_EXT_ACTIV_TREMOR	24168
Pattern ExternallyInfluenced, MyoclonicActivity NonCortex, EEG CNS	Myoclonic activity		Myogenic noncerebral activity, myoclonic activity	MDC_EEG_EXT_ACTIV_MYOCLOLONIC	24176
Pattern ExternallyInfluenced, PeriodicMovementsOfSleep NonCortex, EEG CNS	Periodic movements of sleep		Myogenic noncerebral activity, periodic movements of sleep	MDC_EEG_EXT_SLP_MVMT_MULT_PERI	24184
Pattern ExternallyInfluenced, PeriodicMovementsOfSleepWithArousals NonCortex, EEG CNS	Periodic movements of sleep with arousals		Myogenic noncerebral activity, periodic movements of sleep with arousals	MDC_EEG_EXT_SLP_MVMT_W_AROUS_MULT_PERI	24192
Pattern ArtifactualActivity, Unspecified Artifact, NonCortex, EEG CNS	Artifactual activity		Artifactual activity, unspecified artifact	MDC_EEG_ARTIF	24200

Table A.7.9.1—Nomenclature and codes for neurophysiologic enumerations (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
Pattern ArtifactualActivity, ElectrodeInstrumentalArtifact Artifact, NonCortex, EEG CNS	Electrode instrumental artifactual activity		Artifactual activity, electrode/instrumental artifact	MDC_EEG_ARTIF_ELECTRODE_INSTRUM	24208
Pattern ArtifactualActivity, MovementArtifact Artifact, NonCortex, EEG CNS	Movement artifactual activity		Artifactual activity, movement artifact	MDC_EEG_ARTIF_MVMT	24216
Pattern ArtifactualActivity, SweatOrGalvanicArtifact Artifact, NonCortex, EEG CNS	Sweat of galvanic artifactual activity		Artifactual activity, sweat or galvanic artifact	MDC_EEG_ARTIF_SWEAT_OR_GALV	24224
Pattern ArtifactualActivity, PulseArtifact Artifact, NonCortex, EEG CNS	Pulse artifactual activity		Artifactual activity, pulse artifact	MDC_EEG_ARTIF_PULSE	24232
Pattern ArtifactualActivity, ECG_Artifact Artifact, NonCortex, EEG CNS	ECG artifactual activity		Artifactual activity, ECG artifact	MDC_EEG_ARTIF_EKG	24240
Pattern ArtifactualActivity, RespiratoryArtifact Artifact, NonCortex, EEG CNS	Respiratory artifactual activity		Artifactual activity, respiratory artifact	MDC_EEG_ARTIF_RESP	24248
Pattern ArtifactualActivity, GlossokineticArtifact Artifact, NonCortex, EEG CNS	Glossokinetic artifactual activity		Artifactual activity, glossokinetic artifact	MDC_EEG_ARTIF_GLOSSOKINETIC	24256
Pattern ArtifactualActivity, SwallowingChewingSuckingArtifact Artifact, NonCortex, EEG CNS	Swallowing and chewing Artifactual activity		Artifactual activity; swallowing, chewing, and sucking artifact	MDC_EEG_ARTIF_SWALLOW_ETC	24264
Pattern ArtifactualActivity, ExternalInterferenceArtifact Artifact, NonCortex, EEG CNS	External interference Artifactual activity		Artifactual activity, external interference artifact	MDC_EEG_ARTIF_EXT_INTERF	24272
Pattern EyeMovement, Blink Eye, EOG CNS	Eye blink	BL	Eye blink detected	MDC_EOG_EYE_MVMT_BLINK	24280

Table A.7.9.1—Nomenclature and codes for neurophysiologic enumerations (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
Pattern EyeMovement, Saccadic Eye, EOG CNS	Saccade	SAC	Saccadic eye movement detected from the EOG	MDC_EOG_EYE_MVMT_SACCADIC	24288
Pattern EyeMovement, Rapid Eye, EOG CNS	REM	REM	Rapid eye movement detected from the EOG	MDC_EOG_EYE_MVMT_RAPID	24296
Pattern EyeMovement, Slow Eye, EOG CNS	Slow eye movement	SEM	Slow eye movement detected from the EOG	MDC_EOG_EYE_MVMT_SLOW	24304
Pattern EyeMovement, Other Eye, EOG CNS	Other eye movement	OEM	Other type of eye movement detected from the EOG	MDC_EOG_EYE_MVMT_OTHER	24312
Pattern EyeMovement, Closing Eye, EOG CNS	Eyes closed	EC	Subject closes his/her eye (during sleep measurement)	MDC_EOG_EYE_MVMT_CLOSING	24320
Pattern EyeMovement, Opening Eye, EOG CNS	Eyes open	EO	Subject opens his/her eye (during sleep measurement)	MDC_EOG_EYE_MVMT_OPENING	24328
Pattern ParoxysmalActivity, Unspecified Muscle, StandardEMG MuscularSystem	EMG unspecified waveform		EMG waveform, unspecified	MDC_EMG_PAROX_MUSCL	24336
Pattern ParoxysmalActivity, UnspecifiedPotentialUnderVoluntaryControl Muscle, StandardEMG MuscularSystem	EMG waveform under voluntary control		EMG waveform, unspecified potential under voluntary control	MDC_EMG_PAROX_MUSCL_VOL_CTL	24344
Pattern ParoxysmalActivity, MotorUnitPotential Muscle, StandardEMG MuscularSystem	EMG motor unit potential		EMG waveform, motor unit potential	MDC_EMG_PAROX_MUSCL_MOTOR_UNIT_POTL	24352
Pattern ParoxysmalActivity, Doublet Muscle, StandardEMG MuscularSystem	EMG doublet waveform		EMG waveform, doublet	MDC_EMG_PAROX_MUSCL_DOUBLET	24360
Pattern ParoxysmalActivity, Triplet Muscle, StandardEMG MuscularSystem	EMG triplet waveform		EMG, triplet	MDC_EMG_PAROX_MUSCL_TRIPLET	24368
Pattern ParoxysmalActivity, Multiplet Muscle, StandardEMG MuscularSystem	EMG multiplet waveform		EMG waveform, multiplet	MDC_EMG_PAROX_MUSCL_MULTIPLET	24376

Table A.7.9.1—Nomenclature and codes for neurophysiologic enumerations (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
Pattern ParoxysmalActivity, InsertionalActivity Muscle, StandardEMG MuscularSystem	EMG insertional activity		EMG waveform, insertional activity	MDC_EMG_PAROX_MUSCL_ACTIV_INSERTIONAL	24384
Pattern ParoxysmalActivity, EndPlateNoise Muscle, StandardEMG MuscularSystem	EMG endplate noise		EMG waveform, endplate noise	MDC_EMG_PAROX_MUSCL_NOISE_ENDPLATE	24392
Pattern ParoxysmalActivity, EndPlateSpike Muscle, StandardEMG MuscularSystem	EMG endplate spike		EMG waveform, endplate spike	MDC_EMG_PAROX_MUSCL_SPK_ENDPLATE	24400
Pattern ParoxysmalActivity, UnspecifiedIterativeDischarges Muscle, StandardEMG MuscularSystem	EMG unspecified iterative discharge		EMG waveform, unspecified iterative discharges	MDC_EMG_PAROX_MUSCL_DISCHG_ITER	24408
Pattern ParoxysmalActivity, FibrillationPotential Muscle, StandardEMG MuscularSystem	EMG fibrillation potential		EMG waveform, fibrillation potential	MDC_EMG_PAROX_MUSCL_FIBRIL_POTL	24416
Pattern ParoxysmalActivity, PositiveSharpWave Muscle, StandardEMG MuscularSystem	EMG positive sharp wave		EMG waveform, positive sharp wave	MDC_EMG_PAROX_MUSCL_WV_SHARP_POS	24424
Pattern ParoxysmalActivity, FasciculationPotential Muscle, StandardEMG MuscularSystem	EMG fasciculation potential		EMG waveform, fasciculation potential	MDC_EMG_PAROX_MUSCL_FASCIC_POTL	24432
Pattern ParoxysmalActivity, MyotonicDischarge Muscle, StandardEMG MuscularSystem	EMG myotonic discharge		EMG waveform, myotonic discharge	MDC_EMG_PAROX_MUSCL_DISCHG_MYOTONIC	24440
Pattern ParoxysmalActivity, ComplexRepetitiveDischarges Muscle, StandardEMG MuscularSystem	EMG complex repetitive discharge		EMG waveform, complex repetitive discharges	MDC_EMG_PAROX_MUSCL_DISCHG_MULT_CMPLX_REPET	24448
Pattern ParoxysmalActivity, MyokymicDischarges Muscle, StandardEMG MuscularSystem	EMG myokymic discharge		EMG waveform, myokymic discharges	MDC_EMG_PAROX_MUSCL_DISCHG_MYOKEMIC_MULT	24456

Table A.7.9.1—Nomenclature and codes for neurophysiologic enumerations (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
Pattern ParoxysmalActivity , CrampDischarges Muscle, StandardEMG MuscularSystem	EMG cramp discharge		EMG waveform, cramp discharges	MDC_EMG_PAROX_MUSCL_DISCHG_CRAMP_MULT	24464
Pattern ParoxysmalActivity , AfterDischarges Muscle, StandardEMG MuscularSystem	EMG waveform after discharge		EMG waveform, after discharges	MDC_EMG_PAROX_MUSCL_AFTER_DISCHG_MULT	24472
Pattern ParoxysmalActivity, Unspecified Nerve, Motoric, EMG PeripheralNervousSystem	Motor NCS unspecified waveform		Motor NCS waveform, unspecified	MDC_EMG_PAROX_NERV_MOTOR	24480
Pattern ParoxysmalActivity, F_Wave Nerve, Motoric, EMG PeripheralNervousSystem	Motor NCS F wave		Motor NCS waveform, F wave	MDC_EMG_PAROX_NERV_MOTOR_WV_F	24488
Pattern ParoxysmalActivity, H_Reflex Nerve, Motoric, EMG PeripheralNervousSystem	Motor NCS H reflex wave		Motor NCS waveform, H reflex	MDC_EMG_PAROX_NERV_MOTOR_REFLEX_H	24496
Pattern ParoxysmalActivity, C_Reflex Nerve, Motoric, EMG PeripheralNervousSystem	Motor NCS C reflex wave		Motor NCS waveform, C reflex	MDC_EMG_PAROX_NERV_MOTOR_REFLEX_C	24504
Pattern ParoxysmalActivity, SilentPeriod Nerve, Motoric, EMG PeripheralNervousSystem	Motor NCS silent period		Motor NCS, silent period	MDC_EMG_PAROX_NERV_MOTOR_SILENT_PERIOD	24512
Pattern ParoxysmalActivity, AxonReflex Nerve, Motoric, EMG PeripheralNervousSystem	Motor NCS waveform axon reflex		Motor NCS waveform, axon reflex	MDC_EMG_PAROX_NERV_MOTOR_AXON_REFLEX	24520
Pattern ParoxysmalActivity, Unspecified Nerve, Sensory, EMG PeripheralNervousSystem	Sensory NCS unspecified		Sensory NCS waveform, unspecified	MDC_EMG_PAROX_NERV_SENS	24528
Pattern ParoxysmalActivity, SNAP Nerve, Sensory, EMG PeripheralNervousSystem	Sensory NCS SNAP		Sensory NCS waveform, single nerve action potential	MDC_EMG_PAROX_NERV_SENS_SNAP	24536
Pattern ParoxysmalActivity, R1 Nerve, Sensory, EMG PeripheralNervousSystem	Sensory NCS R1		Sensory NCS waveform, R1	MDC_EMG_PAROX_NERV_SENS_R1	24544

Table A.7.9.1—Nomenclature and codes for neurophysiologic enumerations (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
Pattern ParoxysmalActivity, R2 Nerve, Sensory, EMG PeripheralNervousSystem	Sensory NCS R2		Sensory NCS waveform, R2	MDC_EMG_PAROX_NERV_SENS_R2	24552
Pattern ParoxysmalActivity, ContralateralR2 Nerve, Sensory, EMG PeripheralNervousSystem	Sensory NCS contralateral R2		Sensory NCS, contralateral R2	MDC_EMG_PAROX_NERV_SENS_R2_CONTRALAT	24560
Pattern EvokedPotential, Unspecified Cortex, BAEP CNS	BAEP unspecified		BAEP waveform, unspecified	MDC_EVOK_POTL_CRTX_BAEP	24568
Pattern EvokedPotential, Peak_I Cortex, BAEP CNS	BAEP Peak I		BAEP waveform, Peak I	MDC_EVOK_POTL_CRTX_BAEP_I_PK	24576
Pattern EvokedPotential, Peak_II Cortex, BAEP CNS	BAEP Peak II		BAEP waveform, Peak II	MDC_EVOK_POTL_CRTX_BAEP_II_PK	24584
Pattern EvokedPotential, Peak_III Cortex, BAEP CNS	BAEP Peak III		BAEP waveform, Peak III	MDC_EVOK_POTL_CRTX_BAEP_III_PK	24592
Pattern EvokedPotential, Peak_IV Cortex, BAEP CNS	BAEP Peak IV		BAEP waveform, Peak IV	MDC_EVOK_POTL_CRTX_BAEP_IV_PK	24600
Pattern EvokedPotential, Peak_V Cortex, BAEP CNS	BAEP Peak V		BAEP waveform, Peak V	MDC_EVOK_POTL_CRTX_BAEP_V_PK	24608
Pattern EvokedPotential, Peak_VI Cortex, BAEP CNS	BAEP Peak VI		BAEP waveform, Peak VI	MDC_EVOK_POTL_CRTX_BAEP_VI_PK	24616
Pattern EvokedPotential, Unspecified Cortex, MLAEP CNS	MLAEP unspecified waveform		MLAEP waveform, unspecified	MDC_EVOK_POTL_CRTX_MLAEP	24624
Pattern EvokedPotential, N0_Peak Cortex, MLAEP CNS	MLAEP N0 peak		MLAEP waveform, N0 peak	MDC_EVOK_POTL_CRTX_MLAEP_N0_PK	24632
Pattern EvokedPotential, P0_Peak Cortex, MLAEP CNS	MLAEP P0 peak		MLAEP waveform, P0 peak	MDC_EVOK_POTL_CRTX_MLAEP_P0_PK	24640
Pattern EvokedPotential, Na_Peak Cortex, MLAEP CNS	MLAEP waveform Na peak		MLAEP, Na peak	MDC_EVOK_POTL_CRTX_MLAEP_NA_PK	24648

Table A.7.9.1—Nomenclature and codes for neurophysiologic enumerations (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
Pattern EvokedPotential, Pa_Peak Cortex, MLAEP CNS	MLAEP waveform Pa peak		MLAEP waveform, Pa peak	MDC_EVOK_POTL_CRTX_MLAEP_PA_PK	24656
Pattern EvokedPotential, Nb_Peak Cortex, MLAEP CNS	MLAEP waveform Nb peak		MLAEP, Nb peak	MDC_EVOK_POTL_CRTX_MLAEP_NB_PK	24664
Pattern EvokedPotential, Pb_Peak Cortex, MLAEP CNS	MLAEP waveform Pb peak		MLAEP waveform, Pb peak	MDC_EVOK_POTL_CRTX_MLAEP_PB_PK	24672
Pattern EvokedPotential, unspecified Cortex, LLAEP CNS	LLAEP unspecified wave		LLAEP waveform, unspecified	MDC_EVOK_POTL_CRTX_LLAEP	24680
Pattern EvokedPotential, Nb_Peak Cortex, LLAEP CNS	LLAEP Nb peak		LLAEP waveform, Nb peak	MDC_EVOK_POTL_CRTX_LLAEP_NB_PK	24688
Pattern EvokedPotential, P1_Peak Cortex, LLAEP CNS	LLAEP P1 peak		LLAEP waveform, P1 peak	MDC_EVOK_POTL_CRTX_LLAEP_P1_PK	24696
Pattern EvokedPotential, N1_Peak Cortex, LLAEP CNS	LLAEP N1 peak		LLAEP waveform, N1 peak	MDC_EVOK_POTL_CRTX_LLAEP_N1_PK	24704
Pattern EvokedPotential, P2_Peak Cortex, LLAEP CNS	LLAEP P2 peak		LLAEP waveform, P2 peak	MDC_EVOK_POTL_CRTX_LLAEP_P2_PK	24712
Pattern EvokedPotential, N2_Peak Cortex, LLAEP CNS	LLAEP N2 peak		LLAEP waveform, N2 peak	MDC_EVOK_POTL_CRTX_LLAEP_N2_PK	24720
Pattern EvokedPotential, P300_Peak Cortex, LLAEP CNS	LLAEP P300 peak		LLAEP waveform, P300 Peak	MDC_EVOK_POTL_CRTX_LLAEP_P300_PK	24728
Pattern EvokedPotential, Unspecified Ear, CochlearNerve PeripheralNervousSystem	ECoG unspecified waveform		ECoG waveform, unspecified	MDC_EVOK_POTL_EAR_COCHL	24736
Pattern EvokedPotential, CochlearMicrophonic Ear, CochlearNerve PeripheralNervousSystem	ECoG waveform cochlear microphonic		ECoG waveform, cochlear microphonic	MDC_EVOK_POTL_EAR_COCHL_MICROPHONIC	24744

Table A.7.9.1—Nomenclature and codes for neurophysiologic enumerations (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
Pattern EvokedPotential, SummatingPotential Ear, CochlearNerve PeripheralNervousSystem	ECoG waveform summating potential		ECoG waveform, summating potential	MDC_EVOK_POTL_EAR_COCHL_SUM_POTL	24752
Pattern EvokedPotential, NerveActionPotential Ear, CochlearNerve PeripheralNervousSystem	ECoG waveform Nerve action potential		ECoG waveform, nerve action potential peak	MDC_EVOK_POTL_EAR_COCHL_NAP	24760
Pattern EvokedPotential, CochlearMicroSummatingPotential Ear, CochlearNerve PeripheralNervousSystem	ECoG waveform cochlear microsummating potential		ECoG waveform, cochlear microsummating potential	MDC_EVOK_POTL_EAR_COCHL_MICRO_SUM_POTL	24768
Pattern EvokedPotential, SummatingPotentialNerveActionPotential Ear, CochlearNerve PeripheralNervousSystem	ECoG waveform summating potential nerve action potential		ECoG waveform, summating potential nerve action potential	MDC_EVOK_POTL_EAR_COCHL_SUM_POTL_NAP	24776
Pattern EvokedPotential, CochlearMicroNerveActionPotential Ear, CochlearNerve PeripheralNervousSystem	ECoG waveform cochlear microneuronal action potential		ECoG waveform, cochlear microneuronal action potential	MDC_EVOK_POTL_EAR_COCHL_MICRO_NAP	24784
Pattern EvokedPotential, Unspecified Eye, Retina PeripheralNervousSystem	ERG unspecified waveform		ERG waveform, unspecified	MDC_EVOK_POTL_EYE_RETINA	24792
Pattern EvokedPotential, EarlyReceptorPotential Eye, Retina PeripheralNervousSystem	ERG waveform early receptor potential		ERG waveform, early receptor potential	MDC_EVOK_POTL_EYE_RETINA_RECEP_POTL_EARLY	24800
Pattern EvokedPotential, A_Wave Eye, Retina PeripheralNervousSystem	ERG waveform A wave		ERG waveform, A wave	MDC_EVOK_POTL_EYE_RETINA_WV_A	24808
Pattern EvokedPotential, B_Wave Eye, Retina PeripheralNervousSystem	ERG waveform B wave		ERG waveform, B wave	MDC_EVOK_POTL_EYE_RETINA_WV_B	24816

Table A.7.9.1—Nomenclature and codes for neurophysiologic enumerations (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
Pattern EvokedPotential, C_Wave Eye, Retina PeripheralNervousSystem	ERG waveform C wave		ERG waveform, C wave	MDC_EVOK_POTL_EYE_RETINA_WV_C	24824
Pattern EvokedPotential, Unspecified Cortex, Patterned_VEP CNS	Patterned VEP unspecified waveform		Patterned VEP waveform, unspecified	MDC_EVOK_POTL_CRTX_PATT_VEP	24832
Pattern EvokedPotential, P50_Peak Cortex, Patterned_VEP CNS	Patterned VEP waveform P50 peak		Patterned VEP waveform, P50 peak	MDC_EVOK_POTL_CRTX_PATT_VEP_P50_PK	24840
Pattern EvokedPotential, N75_Peak Cortex, Patterned_VEP CNS	Patterned VEP waveform N75 peak		Patterned VEP waveform, N75 peak	MDC_EVOK_POTL_CRTX_PATT_VEP_N75_PK	24848
Pattern EvokedPotential, P100_Peak Cortex, Patterned_VEP CNS	Patterned VEP waveform P100 peak		Patterned VEP waveform, P100 peak	MDC_EVOK_POTL_CRTX_PATT_VEP_P100_PK	24856
Pattern EvokedPotential, N145_Peak Cortex, Patterned_VEP CNS	Patterned VEP waveform N145 peak		Patterned VEP waveform, N145 peak	MDC_EVOK_POTL_CRTX_PATT_VEP_P145_PK	24864
Pattern EvokedPotential, P175_Peak Cortex, Patterned_VEP CNS	Patterned VEP waveform P175 peak		Patterned VEP waveform, P175 peak	MDC_EVOK_POTL_CRTX_PATT_VEP_P175_PK	24872
Pattern EvokedPotential, P300_Peak Cortex, Patterned_VEP CNS	Patterned VEP waveform P300 peak		Patterned VEP waveform, P300 peak	MDC_EVOK_POTL_CRTX_PATT_VEP_P300_PK	24880
Pattern EvokedPotential, Unspecified Cortex, Diffuse_Light_VEP CNS	Diffuse light VEP unspecified waveform		Patterned VEP waveform, unspecified	MDC_EVOK_POTL_CRTX_DIFFUSE_LT_VEP	24888
Pattern EvokedPotential, N1_Peak Cortex, Diffuse_Light_VEP CNS	Diffuse light VEP waveform N1 peak		Patterned VEP waveform, N1 peak	MDC_EVOK_POTL_CRTX_DIFFUSE_LT_VEP_N1_PK	24896
Pattern EvokedPotential, P1_Peak Cortex, Diffuse_Light_VEP CNS	Diffuse light VEP waveform P1 peak		Patterned VEP waveform, P1 peak	MDC_EVOK_POTL_CRTX_DIFFUSE_LT_VEP_P1_PK	24904

Table A.7.9.1—Nomenclature and codes for neurophysiologic enumerations (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
Pattern EvokedPotential, N2_Peak Cortex, Diffuse_Light_VEP CNS	Diffuse light VEP waveform N2 peak		Patterned VEP waveform, N2 peak	MDC_EVOK_POTL_CRTX_DIFFUSE_LT_VEP_N2_PK	24912
Pattern EvokedPotential, P2_Peak Cortex, Diffuse_Light_VEP CNS	Diffuse light VEP waveform P2 peak		Patterned VEP waveform, P2 peak	MDC_EVOK_POTL_CRTX_DIFFUSE_LT_VEP_P2_PK	24920
Pattern EvokedPotential, N3_Peak Cortex, Diffuse_Light_VEP CNS	Diffuse light VEP waveform N3 peak		Patterned VEP waveform, N3 peak	MDC_EVOK_POTL_CRTX_DIFFUSE_LT_VEP_N3_PK	24928
Pattern EvokedPotential, P3_Peak Cortex, Diffuse_Light_VEP CNS	Diffuse light VEP waveform P3 peak		Patterned VEP waveform, P3 peak	MDC_EVOK_POTL_CRTX_DIFFUSE_LT_VEP_P3_PK	24936
Pattern EvokedPotential, Unspecified Nerve, Cortex, MedianusOrUlnarisSEP CNS, PeripheralNervousSystem	Medianus or ulnaris SEP unspecified waveform		Medianus or ulnaris SEP waveform, unspecified	MDC_EVOK_POTL_NERV_CRTX_MED_ULN_SEP	24944
Pattern EvokedPotential, N9_Peak Nerve, Cortex, MedianusOrUlnarisSEP CNS, PeripheralNervousSystem	Medianus or ulnaris SEP N9 peak		Medianus or ulnaris SEP waveform, N9 peak	MDC_EVOK_POTL_NERV_CRTX_MED_ULN_sep_N9_PK	24952
Pattern EvokedPotential, N11_Peak Nerve, Cortex, MedianusOrUlnarisSEP CNS, PeripheralNervousSystem	Medianus or ulnaris SEP N11 peak		Medianus or ulnaris SEP waveform, N11 peak	MDC_EVOK_POTL_NERV_CRTX_MED_ULN_SEP_N11_PK	24960
Pattern EvokedPotential, N13_Peak Nerve, Cortex, MedianusOrUlnarisSEP CNS, PeripheralNervousSystem	Medianus or ulnaris SEP N13 peak		Medianus or ulnaris SEP waveform, N13 peak	MDC_EVOK_POTL_NERV_CRTX_MED_ULN_SEP_N13_PK	24968
Pattern EvokedPotential, N20_Peak Nerve, Cortex, MedianusOrUlnarisSEP CNS, PeripheralNervousSystem	Medianus or ulnaris SEP N20 peak		Medianus or ulnaris SEP waveform, N20 peak	MDC_EVOK_POTL_NERV_CRTX_MED_ULN_SEP_N20_PK	24976
Pattern EvokedPotential, P30_Peak Nerve, Cortex, MedianusOrUlnarisSEP CNS, PeripheralNervousSystem	Medianus or ulnaris SEP P30 peak		Medianus or ulnaris SEP waveform, P30 peak	MDC_EVOK_POTL_NERV_CRTX_MED_ULN_SEP_P30_PK	24984

Table A.7.9.1—Nomenclature and codes for neurophysiologic enumerations (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
Pattern EvokedPotential, P300_Peak Nerve, Cortex, MedianusOrUlnarisSEP CNS, PeripheralNervousSystem	Medianus or ulnaris SEP P300 peak		Medianus or ulnaris SEP waveform, P300 peak	MDC_EVOK_POTL_NERV_CRTX_MED_ULN_SEP_P300_PK	24992
Pattern EvokedPotential, Unspecified Nerve, Cortex, PeroneusSEP CNS, PeripheralNervousSystem	Peroneus SEP waveform		Peroneus SEP waveform, unspecified	MDC_EVOK_POTL_NERV_CRTX_PER_SEP	25000
Pattern EvokedPotential, Lumbar_Peak Nerve, Cortex, PeroneusSEP CNS, PeripheralNervousSystem	Peroneus SEP lumbar peak		Peroneus SEP waveform, lumbar peak	MDC_EVOK_POTL_NERV_CRTX_PER_SEP_LUMBAR_PK	25008
Pattern EvokedPotential, LowThoracic_Peak Nerve, Cortex, PeroneusSEP CNS, PeripheralNervousSystem	Peroneus SEP low thoracic peak		Peroneus SEP waveform, low thoracic peak	MDC_EVOK_POTL_NERV_CRTX_PER_SEP_LO_THOR_PK	25016
Pattern EvokedPotential, HighThoracic_Peak Nerve, Cortex, PeroneusSEP CNS, PeripheralNervousSystem	Peroneus SEP high thoracic peak		Peroneus SEP waveform, high thoracic peak	MDC_EVOK_POTL_NERV_CRTX_PER_SEP_HI_THOR_PK	25024
Pattern EvokedPotential, P27_Peak Nerve, Cortex, PeroneusSEP CNS, PeripheralNervousSystem	Peroneus SEP P27 peak		Peroneus SEP waveform, P27 peak	MDC_EVOK_POTL_NERV_CRTX_PER_SEP_P27_PK	25032
Pattern EvokedPotential, N35_Peak Nerve, Cortex, PeroneusSEP CNS, PeripheralNervousSystem	Peroneus SEP N35 peak		Peroneus SEP waveform, N35 peak	MDC_EVOK_POTL_NERV_CRTX_PER_SEP_N35_PK	25040
Pattern EvokedPotential, P300_Peak Nerve, Cortex, PeroneusSEP CNS, PeripheralNervousSystem	Peroneus SEP P300 peak		Peroneus SEP waveform, P300 peak	MDC_EVOK_POTL_NERV_CRTX_PER_SEP_P300_PK	25048
Pattern EvokedPotential, Unspecified Nerve, Cortex, TibialisSEP CNS, PeripheralNervousSystem	Tibialis SEP waveform		Tibialis SEP waveform, unspecified	MDC_EVOK_POTL_NERV_CRTX_TIB_SEP	25056

Table A.7.9.1—Nomenclature and codes for neurophysiologic enumerations (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
Pattern EvokedPotential, Popliteal_Peak Nerve, Cortex, TibialisSEP CNS, PeripheralNervousSystem	Tibialis SEP popliteal peak		Tibialis SEP waveform, popliteal peak	MDC_EVOK_POTL_NERV_CRTX_TIB_SEP_POPLIT_PK	25064
Pattern EvokedPotential, Lumbar_Peak Nerve, Cortex, TibialisSEP CNS, PeripheralNervousSystem	Tibialis SEP lumbar peak		Tibialis SEP waveform, lumbar peak	MDC_EVOK_POTL_NERV_CRTX_TIB_SEP_LUMBAR_PK	25072
Pattern EvokedPotential, Thoracic_Peak Nerve, Cortex, TibialisSEP CNS, PeripheralNervousSystem	Tibialis SEP thoracic peak		Tibialis SEP waveform, thoracic peak	MDC_EVOK_POTL_NERV_CRTX_TIB_SEP_THOR_PK	25080
Pattern EvokedPotential, P37_Peak Nerve, Cortex, TibialisSEP CNS, PeripheralNervousSystem	Tibialis SEP P37 peak		Tibialis SEP waveform, P37 peak	MDC_EVOK_POTL_NERV_CRTX_TIB_SEP_P37_PK	25088
Pattern EvokedPotential, N45_Peak Nerve, Cortex, TibialisSEP CNS, PeripheralNervousSystem	Tibialis SEP N45 peak		Tibialis SEP waveform, N45 peak	MDC_EVOK_POTL_NERV_CRTX_TIB_SEP_N45_PK	25096
Pattern EvokedPotential, P300_Peak Nerve, Cortex, TibialisSEP CNS, PeripheralNervousSystem	Tibialis SEP P300 peak		Tibialis SEP waveform, P300 peak	MDC_EVOK_POTL_NERV_CRTX_TIB_SEP_P300_PK	25104
Pattern EvokedPotential, Unspecified Nerve, Cortex, OtherSEP CNS, PeripheralNervousSystem	Other SEP waveform		Other SEP waveform, unspecified	MDC_EVOK_POTL_NERV_CRTX_OTH_SEP	25112
Pattern EvokedPotential, Peak_I Nerve, Cortex, OtherSEP CNS, PeripheralNervousSystem	Other SEP Peak I		Other SEP waveform, Peak I	MDC_EVOK_POTL_NERV_CRTX_OTH_SEP_I_PK	25120
Pattern EvokedPotential, Peak_II Nerve, Cortex, OtherSEP CNS, PeripheralNervousSystem	Other SEP Peak II		Other SEP waveform, Peak II	MDC_EVOK_POTL_NERV_CRTX_OTH_SEP_II_PK	25128
Pattern EvokedPotential, Peak_III Nerve, Cortex, OtherSEP CNS, PeripheralNervousSystem	Other SEP Peak III		Other SEP waveform, Peak III	MDC_EVOK_POTL_NERV_CRTX_OTH_SEP_III_PK	25136

Table A.7.9.1—Nomenclature and codes for neurophysiologic enumerations *(continued)*

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
Pattern EvokedPotential, Peak_IV Nerve, Cortex, OtherSEP CNS, PeripheralNervousSystem	Other SEP Peak IV		Other SEP waveform, Peak IV	MDC_EVOK_POTL_NERV_CRTX_OTH_SEP_IV_PK	25144
Pattern EvokedPotential, Peak_V Nerve, Cortex, OtherSEP CNS, PeripheralNervousSystem	Other SEP Peak V		Other SEP waveform, Peak V	MDC_EVOK_POTL_NERV_CRTX_OTH_SEP_V_PK	25152
Pattern EvokedPotential, P300_Peak Nerve, Cortex, OtherSEP CNS, PeripheralNervousSystem	Other SEP P300 peak		Other SEP waveform, P300 peak	MDC_EVOK_POTL_NERV_CRTX_OTH_SEP_P300_PK	25160

Table A.7.10.1—Nomenclature and codes for neurophysiologic stimulation modes

Systematic name	Common term	Description/Definition	Reference ID	Code
Type Stimulus, Click Cochlea CNS	Click	Click type stimulus during acoustic evoked potential measurements, short square pulse to ear phone	MDC_STIM_CLICK	53504
Type Stimulus, FilteredClick Cochlea CNS	Filtered click	Filtered click type stimulus during acoustic evoked potential measurements	MDC_STIM_CLICK_FILTER	53505
Type Stimulus, Pip Cochlea CNS	Pip	Pip type stimulus during acoustic evoked potential measurements, sinus wave with defined increase, plateau and decrease	MDC_STIM_PIP	53506
Type Stimulus, GatedSine Cochlea CNS	Gated sine wave	Gated sine type stimulus during acoustic evoked potential measurements, sinus wave switched on for a defined number of cycles	MDC_STIM_SINUSOID_GATE	53507
Side Stimulus, LeftEar Cochlea CNS	Left ear	Target of stimulus during acoustic evoked potential measurement: left ear	MDC_STIM_EAR_LEFT	53508
Side Stimulus, RightEar Cochlea CNS	Right ear	Target of stimulus during acoustic evoked potential measurement: right ear	MDC_STIM_EAR_RIGHT	53509
Side Stimulus, BothEars Cochlea CNS	Both ears	Target of stimulus during acoustic evoked potential measurement: both ears	MDC_STIM_EAR_BOTH	53510
Type MaskingNoise, LeftEar Cochlea CNS	AEP masking, noise, left ear	Masking noise, white noise, presented to contralateral ear to mask out stimulus conducted by bone during acoustic evoked potential measurement: presented to left ear	MDC_STIM_EAR_MASK_AEP_LEFT	53511
Type MaskingNoise, RightEar Cochlea CNS	AEP masking, noise, right ear	Masking noise, white noise, presented to contralateral ear to mask out stimulus conducted by bone during acoustic evoked potential measurement: presented to right ear	MDC_STIM_EAR_MASK_AEP_RIGHT	53512
Type MaskingNoise, BothEars Cochlea CNS	AEP masking, noise, both ears	Masking noise, white noise, presented to contralateral ear to mask out stimulus conducted by bone during acoustic evoked potential measurement: presented to both ears	MDC_STIM_EAR_MASK_AEP_BOTH	53513
Type Stimulus, Rarefaction Cochlea CNS	Rarefaction	Polarity of click stimulus presented to the ear during acoustic evoked potential measurement: rarefaction	MDC_STIM_RAREFAC	53514
Type Stimulus, Condensation Cochlea CNS	Condensation	Polarity of click stimulus presented to the ear during acoustic evoked potential measurement: condensation	MDC_STIM_CONDENS	53515
Type Stimulus, Alternating Cochlea CNS	Alternating	Polarity of click stimulus presented to the ear during acoustic evoked potential measurement: alternating	MDC_STIM_ALTERN	53516

Table A.7.10.1—Nomenclature and codes for neurophysiologic stimulation modes (continued)

Systematic name	Common term	Description/Definition	Reference ID	Code
Type VisualField, NOS Retina CNS	VEP visual field, unspecified	Target area of stimulus in visual field during VEP measurement: not specified	MDC_STIM_VIS_FLD	53517
Type VisualField, Full Retina CNS	Full field stimulation	Target area of stimulus in visual field during VEP measurement: full visual field	MDC_STIM_VIS_FLD_FULL	53518
Type VisualField, Left, Half Retina CNS	Left half field stimulation	Target area of stimulus in visual field during VEP measurement: left half of visual field	MDC_STIM_VIS_FLD_HALF_L	53519
Type VisualField, Right, Half Retina CNS	Right half field stimulation	Target area of stimulus in visual field during VEP measurement: right half of visual field	MDC_STIM_VIS_FLD_HALF_R	53520
Type VisualField, Top, Half Retina CNS	Top half field stimulation	Target area of stimulus in visual field during VEP measurement: top half of visual field	MDC_STIM_VIS_FLD_HALF_TOP	53521
Type VisualField, Bottom, Half Retina CNS	Bottom half field stimulation	Target area of stimulus in visual field during VEP measurement: bottom half of visual field	MDC_STIM_VIS_FLD_HALF_BOT	53522
Type VisualField, Left, Top, Quadrant Retina CNS	Left top quadrant field stimulation	Target area of stimulus in visual field during VEP measurement: left top quadrant of visual field	MDC_STIM_VIS_FLD_TOP_QUAD_L	53523
Type VisualField, Right, Top, Quadrant Retina CNS	Right top quadrant field stimulation	Target area of stimulus in visual field during VEP measurement: right top quadrant of visual field	MDC_STIM_VIS_FLD_TOP_QUAD_R	53524
Type VisualField, Left, Bottom, Quadrant Retina CNS	Left bottom quadrant field stimulation	Target area of stimulus in visual field during VEP measurement: left bottom quadrant of visual field	MDC_STIM_VIS_FLD_BOT_QUAD_L	53525
Type VisualField, Right, Bottom, Quadrant Retina CNS	Right bottom quadrant field stimulation	Target area of stimulus in visual field during VEP measurement: right bottom of visual field	MDC_STIM_VIS_FLD_BOT_QUAD_R	53526
Type Pattern, NOS Retina CNS	VEP pattern, unspecified	Pattern type used for stimulation of retina during VEP measurement: unspecified	MDC_STIM_PATT_VEP	53527
Type Pattern, CheckerBoard Retina CNS	Checkerboard	Pattern type used for stimulation of retina during VEP measurement: checkerboard	MDC_STIM_PATT_CHKBRD	53528
Type Pattern, Bar, Horizontally Retina CNS	Horizontally oriented bar	Pattern type used for stimulation of retina during VEP measurement: horizontally oriented bar	MDC_STIM_PATT_BAR_HORIZ	53529
Type Pattern, Bar, Vertically Retina CNS	Vertically oriented bar	Pattern type used for stimulation of retina during VEP measurement: vertically oriented bar	MDC_STIM_PATT_BAR_VERT	53530

Table A.7.10.1—Nomenclature and codes for neurophysiologic stimulation modes (continued)

Systematic name	Common term	Description/Definition	Reference ID	Code
Type Pattern, SineWave, Horizontally Retina CNS	Horizontally oriented sine wave	Pattern type used for stimulation of retina during VEP measurement: horizontally oriented sine wave	MDC_STIM_PATT_SINUSOID_HORIZ	53531
Type Pattern, SineWave, Vertically Retina CNS	Vertically oriented sine wave	Pattern type used for stimulation of retina during VEP measurement: vertically oriented sine wave	MDC_STIM_PATT_SINUSOID_VERT	53532
Type Pattern, Windmill Retina CNS	Windmill	Pattern type used for stimulation of retina during VEP measurement: windmill	MDC_STIM_PATT_WINDMILL	53533
Type Pattern, DartBoard Retina CNS	Dartboard	Pattern type used for stimulation of retina during VEP measurement: dartboard	MDC_STIM_PATT_DARTBRD	53534
Type Pattern, Complex Retina CNS	Complex pattern	Pattern type used for stimulation of retina during VEP measurement: complex pattern not otherwise specified	MDC_STIM_PATT_CMPLX	53535
Type Stimulus, NOS Retina CNS	VEP stimulus type, unspecified	Type of change in pattern used for stimulation of retina during VEP measurement: unspecified stimulus type	MDC_STIM_VEP	53536
Type Stimulus, PatternReversal Retina CNS	Pattern reversal	Type of change in pattern used for stimulation of retina during VEP measurement: pattern reversal	MDC_STIM_PATT_REVERSAL	53537
Type Stimulus, Sinusoidally Retina CNS	Sinusoidally stimulus	Type of change in pattern used for stimulation of retina during VEP measurement: sinusoidally	MDC_STIM_SINUSOID	53538
Type Stimulus, Flash Retina CNS	Flash stimulus	Type of stimulus used for stimulation of retina during VEP measurement: flash, rapid change in brightness without pattern	MDC_STIM_FLASH	53539
Side Stimulus, LeftEye Retina CNS	Left eye	Side of stimulation during VEP measurement: left eye	MDC_STIM_EYE_LEFT	53540
Side Stimulus, RightEye Retina CNS	Right eye	Side of stimulation during VEP measurement: right eye	MDC_STIM_EYE_RIGHT	53541
Side Stimulus, BothEyes Retina CNS	Both eyes	Side of stimulation during VEP measurement: both eyes	MDC_STIM_EYE_BOTH	53542
Type Stimulus, Electrical, NOS Nerve CNS	Electrical SEP stimulus	Type of electrical stimulus during SEP measurement: not specified	MDC_STIM_SEP_ELEC	53543
Type Stimulus, Electrical, CurrentLimited Nerve CNS	Current limited electrical SEP stimulus	Type of electrical stimulus during SEP measurement: current limited pulse	MDC_STIM_SEP_CURR_LIMITED	53544

Table A.7.10.1—Nomenclature and codes for neurophysiologic stimulation modes (continued)

Systematic name	Common term	Description/Definition	Reference ID	Code
Type Stimulus, Electrical, Voltage SensoryNerve CNS	Defined voltage type electrical SEP stimulus	Type of electrical stimulus during SEP measurement: constant voltage pulse	MDC_STIM_SEP_ELEC_VOLTAGE_DEF	53545
Type Stimulus, NonElectrical, NOS SensoryNerve CNS	Non electrical SEP stimulus	Type of non electrical stimulus during SEP measurement: not specified	MDC_STIM_SEP_NON_ELEC	53546
Type Stimulus, NonElectrical, Vibration SensoryNerve CNS	Vibration type SEP stimulus	Type of non electrical stimulus during SEP measurement: vibration of mechanical stimulator	MDC_STIM_SEP_VIB	53547
Type Stimulus, NonElectrical, Temperature SensoryNerve CNS	Temperature type SEP stimulus	Type of nonelectrical stimulus during SEP measurement: change of temperature of stimulator	MDC_STIM_SEP_TEMP	53548
Side Stimulus, Unilateral, Left SensoryNerve CNS	Left unilateral	Side of stimulation during SEP measurement: unilateral left	MDC_STIM_UNILAT_L	53549
Side Stimulus, Unilateral, Right SensoryNerve CNS	Right unilateral	Side of stimulation during SEP measurement: unilateral right	MDC_STIM_UNILAT_R	53550
Side Stimulus, Bilateral SensoryNerve CNS	Bilateral	Side of stimulation during SEP measurement: bilateral	MDC_STIM_BILAT	53551
Type Stimulus, MagneticField MotoricCortex CNS	Magnetic type MEP Stimulus	Type of stimulus used during motoric evoked potential measurement: magnetic field by condenser discharge to coil	MDC_STIM_MEP_MAG	53552
Type Stimulus, HighVoltage MotoricCortex CNS	High voltage type MEP stimulus	Type of stimulus used during motoric evoked potential measurement: high-voltage pulse applied outside skull	MDC_STIM_MEP_HI_VOLT	53553

Table A.9.2.1—Nomenclature and codes for pattern events

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
ErrorEvent Heart, Rate, Irregular Heart, ECG CVS	Irregular heart rate		Error Event: Irregular heart rate (which means the beat detector finds a highly variable heart rate and cannot derive a consistent/stable value)	MDC_EVT_ECG_CARD_BEAT_RATE_IRREG	3158
LimitEvent Apnea, Respiration	Apnea		No breathing within a pre-configured time span	MDC_EVT_APNEA	3072
LimitEvent Apnea, Pressure Respiration	Apnea		Apnea - pressure absent for 15 seconds	MDC_EVT_VENT_RESP_APNEA_15_SEC	3284
LimitEvent Apnea, VolumeExhale Respiration	Apnea		Apnea - no volume exhale for 30 seconds	MDC_EVT_VENT_RESP_APNEA_30_SEC	3292
LimitEvent AssistedSpontBreathing Respiration	ASB > x sec		Assisted spontaneous breathing longer then a predefined time span (PSW)	MDC_EVT_RESP_BREATHING_SPONT_ASSIST_PSW	3278
LimitEvent Bradycardia, Extreme Heart, ECG CVS	Extreme bradycardia		Limit Event: Extreme Bradycardia (escalated low HR limit, not a brady rhythm)	MDC_EVT_ECG_BRADY_EXTREME	3086
LimitEvent Concentration, Oxygen, Desaturation Respiration	Desaturation		Limit Event: Desaturation (escalated low oxygen alarm, used esp. in neonatal)	MDC_EVT_DESAT	3246
LimitEvent Extrasystoles, Contraction, Ventricular, Premature, HighLimit Heart, ECG CVS	PVC rate alarm		A specific limit alert on the PVC rate	MDC_EVT_ECG_V_P_C_RATE	3252
LimitEvent Rhythm, Asystole Heart, ECG CVS	Asystole		No QRS-complex found in predefined time period	MDC_EVT_ECG_ASYSTOLE	3076
LimitEvent Tachycardia, Extreme Heart, ECG CVS	Extreme tachycardia		Limit Event: Extreme Tachycardia (escalated high HR limit, not a tachy rhythm)	MDC_EVT_ECG_TACHY_EXTREME	3122
PatternEvent Heart, ECG CVS	Arrhythmia event		Unspecified ECG (arrhythmia) event	MDC_EVT_ECG_ARRHY	3266
PatternEvent Extrasystoles, Contraction, Atrial, Premature Heart, ECG CVS		PAC	Premature atrial contraction	MDC_EVT_ECG_ATR_P_C	3130
PatternEvent Discharge, ClinicalSeizure Cortex, EEG CNS	Clinical seizure discharge		Clinical seizure discharge in EEG	MDC_EVT_EEG_DISCHG_SEIZ_CLIN	3264
PatternEvent Discharge, Epileptiform Cortex, EEG CNS	Epileptiform discharges		Epileptiform discharges in EEG	MDC_EVT_EEG_DISCHG_EPILEPTIFORM	3268

Table A.9.2.1—Nomenclature and codes for pattern events (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
PatternEvent Extrasystoles, Contraction, SupraVentricular, Premature Heart, ECG CVS		SPVC	Supraventricular extrasystole	MDC_EVT_ECG_SV_P_C	3190
PatternEvent Extrasystoles, Contraction, SupraVentricular, Premature, Frequent Heart, ECG CVS		FSPVC	Frequent supraventricular extrasystoles	MDC_EVT_ECG_SV_P_C_FREQ	3290
PatternEvent Extrasystoles, Contraction, SupraVentricular, Premature, Run Heart, ECG CVS		RUN S	Several consecutive supraventricular extrasystoles	MDC_EVT_ECG_SV_P_C_RUN	3248
PatternEvent Extrasystoles, Contraction, Ventricular, Premature Heart, ECG CVS		PVC	Premature ventricular contraction	MDC_EVT_ECG_V_P_C	3204
PatternEvent Extrasystoles, Contraction, Ventricular, Premature, Frequent Heart, ECG CVS		FPVC	Frequent premature ventricular contractions	MDC_EVT_ECG_V_P_C_FREQ	3274
PatternEvent Extrasystoles, Contraction, Ventricular, Premature, Multifomed Heart, ECG CVS		MFPVC	Multifomed premature ventricular contractions	MDC_EVT_ECG_V_P_C_MULTIFORM	3208
PatternEvent Extrasystoles, Contraction, Ventricular, Premature, R-on-T Heart, ECG CVS		RTPVC	Premature ventricular contraction, R-on-T	MDC_EVT_ECG_V_P_C_RonT	3206
PatternEvent Extrasystoles, Contraction, Ventricular, Premature, Run Heart, ECG CVS		RUN V	Several consecutive ventricular extrasystoles	MDC_EVT_ECG_V_P_C_RUN	3212
PatternEvent Extrasystoles, Contraction, Ventricular, Premature, Pair Heart, ECG CVS	Pair of PVCs		Pair of premature ventricular contractions	MDC_EVT_ECG_V_P_C_PAIR	3210
PatternEvent Extrasystoles, Contraction, Ventricular, Premature, Run, Escalation Heart, ECG CVS	Escalation of run of PVC		Ventricular rhythm: escalation of Run of PVC, not yet flutter	MDC_EVT_ECG_V_RHY	3220

Table A.9.2.1—Nomenclature and codes for pattern events (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
PatternEvent Extrasystoles, Ventricular, Bigemini Heart, ECG CVS	Ventricular bigemini		Ventricular bigemini: a specific rhythm	MDC_EVT_ECG_BIGEM	3082
PatternEvent Extrasystoles, Ventricular, Trigemini Heart, ECG CVS	Ventricular trigemini		Ventricular trigemini: a specific rhythm	MDC_EVT_ECG_V_TRIGEM	3236
PatternEvent MissedBeat Heart, ECG CVS	Missed beat		Missed beat within some regular ECG rhythm	MDC_EVT_ECG_BEAT_MISSED	3078
PatternEvent Pacer, Artifact Heart, ECG CVS	Pacer artifact		Pacer artifact recognized	MDC_EVT_ECG_PACER_ARTIF_RECOG	3294
PatternEvent Pacer, Error Heart, ECG CVS	Not paced		No pacer detected	MDC_EVT_ECG_PACER_ABSENT	3286
PatternEvent Pacer, NotCaptured Heart, ECG CVS		PACENC	Pacer not captured (not recognized by heart)	MDC_EVT_ECG_PACING_NON_CAPT	3102
PatternEvent Pacer, NotSensing Heart, ECG CVS		PACENS	Pacer (device) not sensing	MDC_EVT_ECG_PACER_NOT_PACING	3182
PatternEvent Pacer, Sensed Heart, ECG CVS	Pacing event		Pacer pulse sensed by heart	MDC_EVT_ECG_PACED_BEAT	3096
PatternEvent Rhythm, Atrial, Tachycardia Heart, ECG CVS	ATACH		Atrial tachycardia	MDC_EVT_ECG_ATR_TACHY	3136
PatternEvent Rhythm, AV_Block, 2:1 Heart, ECG CVS	2:1BLK		2:1 AV block	MDC_EVT_ECG_AV_HEART_BLK_DEG_2_1	3280
PatternEvent Rhythm, AV_Block, 3:1 Heart, ECG CVS	3:1BLK		3:1 AV block	MDC_EVT_ECG_AV_HEART_BLK_DEG_3_1	3282
PatternEvent Rhythm, AV_Block, 4:1 Heart, ECG CVS	4:1BLK		4:1 AV block	MDC_EVT_ECG_AV_HEART_BLK_DEG_4_1	3288
PatternEvent Rhythm, AV_Block, Grade1 Heart, ECG CVS	1AVBLK		AV block 1.*	MDC_EVT_ECG_AV_HEART_BLK_DEG_1	3146
PatternEvent Rhythm, AV_Block, Grade2 Heart, ECG CVS	2AVBLK		AV block 2.*	MDC_EVT_ECG_AV_HEART_BLK_DEG_2	3148

Table A.9.2.1—Nomenclature and codes for pattern events (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
PatternEvent Rhythm, AV_Block, Grade3 Heart, ECG CVS	3AVBLK		AV block 3.*	MDC_EVT_ECG_AV_HEART_BLK_DEG_3	3258
PatternEvent Rhythm, Bradycardia Heart, ECG CVS		BRADY	Bradycardia	MDC_EVT_ECG_SINUS_BRADY	3084
PatternEvent Rhythm, Couplet Heart, ECG CVS		CPLT	Couplet	MDC_EVT_ECG_RHY_CPLT	3272
PatternEvent Rhythm, Fibrillation, Atrial Heart, ECG CVS		AFIB	Atrial fibrillation	MDC_EVT_ECG_ATR_FIB	3128
PatternEvent Rhythm, Fibrillation, Ventricular Heart, ECG CVS		VFIB	Ventricular fibrillation	MDC_EVT_ECG_V_FIB	3198
PatternEvent Rhythm, Flutter, Atrial Heart, ECG CVS		AFLT	Atrial flutter	MDC_EVT_ECG_ATR_FLUT	3276
PatternEvent Rhythm, Irregular Heart, ECG CVS		IRREG	Irregular rhythm	MDC_EVT_ECG_RR_IRREG	3118
PatternEvent Rhythm, Junctional Heart, ECG CVS		JRHYT	Junctional rhythm	MDC_EVT_ECG_JUNC_RHY	3260
PatternEvent Rhythm, Tachycardia, Junctional Heart, ECG CVS		JTACH	Junctional tachycardia	MDC_EVT_ECG_JUNC_TACHY	3172
PatternEvent Rhythm, Tachycardia, Paroxysmal, Supraventricular Heart, ECG CVS		PSVT	Paroxysmal supraventricular tachycardia	MDC_EVT_ECG_JUNC_TACHY_PAROX	3174
PatternEvent Rhythm, Tachycardia, Sinus Heart, ECG CVS		STACH	Sinus tachycardia	MDC_EVT_ECG_SINUS_TACHY	3262
PatternEvent Rhythm, Tachycardia, Supraventricular Heart, ECG CVS	Supraventricular tachycardia		Supraventricular tachycardia	MDC_EVT_ECG_SV_TACHY	3192
PatternEvent Rhythm, Tachycardia, Ventricular Heart, ECG CVS		VTACH	Ventricular tachycardia	MDC_EVT_ECG_V_TACHY	3224
PatternEvent SharpSpikes Cortex, EEG CNS	Sharp spikes		Sharp spikes in EEG	MDC_EVT_EEG_SPK_SHARP	3270

Table A.9.2.1—Nomenclature and codes for pattern events (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
PatternEvent SpikeAndWaves Cortex, EEG CNS	Spikes and waves		Spikes and waves in EEG	MDC_EVT_EEG_SPK_AND_WV	3254
PatternEvent Volume, NotConstant Respiration	Vol inconst		Breathing volume not constant	MDC_EVT_RESP_VOL_BREATHING_IRREG	3256
Status BreathSpontaneous Ventilator	Spontaneous		Spontaneous breath of the patient, e.g., during weaning	MDC_EVT_STAT_VENT_BREATH_SPONT	20576
Status MachineGeneratedBreath Ventilator	Machine generated		Machine generated breath of the patient, e.g., during weaning	MDC_EVT_STAT_VENT_BREATH_MAND	20580
Status Pacer, Paced Heart, ECG CVS		Paced	Pacer operational and controlling heart rhythm	MDC_EVT_STAT_ECG_PACING	3098

Table A.9.3.1—Nomenclature and codes for device-related and environment-related events

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
Advisory Agent, Vaporizer, CalibrationNecessary FunctionalStatus Ventilator	Agent vapor iris calibration necessary		The mixing iris in agent vaporizer in an ventilator must be checked (anesthesia machine).	MDC_EVT_ADVIS_VENT_MIX_IRIS_CALIB	6726
Advisory AirSupply, CheckingNecessary FunctionalStatus Ventilator	Check air supply	FRESH GAS	Checking of ventilator air supply is necessary.	MDC_EVT_ADVIS_VENT_AIR_SUPP_CHK	6728
Advisory Battery, ConditioningRequired FunctionalStatus Device	Battery conditioning required		Advisory: Condition Battery (battery needs a special "condition" charge cycle for full capacity.)	MDC_EVT_ADVIS_BATT_COND	6676
Advisory Battery, NeedsReplacement FunctionalStatus Device	Battery needs replacement		Advisory: Replace Battery (a full charge is now a too small fraction of the original capacity, or this is not a rechargeable battery that is close to empty.)	MDC_EVT_ADVIS_BATT_REPLACE	6678
Advisory Calibration, CheckingNecessary FunctionalStatus Device	Calibration checking necessary		Advisory: Check Calibration/Zero (system is not sure if calibration data is still ok.)	MDC_EVT_ADVIS_CALIB_AND_ZERO_CHK	6664
Advisory CO ₂ , Failure FunctionalDisturbance Device	CO ₂ failure		Failure occurred in a carbon-dioxide-measuring device.	MDC_EVT_CO2_MSMT_FAIL	462
Advisory CO ₂ Sensor, Fault FunctionalDisturbance Device	CO ₂ sensor fault		Fault occurred in carbon dioxide sensor disc.	MDC_EVT_CO2_SENSOR_FAIL	464
Advisory CO ₂ Window, Occluded FunctionalDisturbance Device	CO ₂ window occluded		Carbon dioxide measurement window in a carbon-dioxide-measuring device is occluded.	MDC_EVT_CO2_WIND_OBSTRUC	216
Advisory ExpirationValve, CheckingNecessary FunctionalStatus Ventilator	Check expiration valve	EXP-VALVE	Checking of expiration valve is necessary.	MDC_EVT_ADVIS_VENT_EXP_VALVE_CHK	6730
Advisory Flow, CalibrationNecessary FunctionalStatus Ventilator	Flow calibration necessary		Flow calibration of ventilator is necessary.	MDC_EVT_ADVIS_VENT_FLOW_CALIB	6724
Advisory FlowSensor, CheckingNecessary FunctionalStatus Ventilator	Flow sensor checking necessary		Checking of flow sensor in a ventilator is necessary.	MDC_EVT_ADVIS_VENT_FLOW_SENSOR_CHK	6722

Table A.9.3.1—Nomenclature and codes for device-related and environment-related events (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
Advisory GainAdjustmentRequired FunctionalStatus Device	Gain adjustment required		Advisory: Decrease Gain (system asks user to decrease the gain; this advisory is different from the overrange error, ErrorEvent, that already is in the nomenclature; it is an "advisory.")	MDC_EVT_ADVIS_GAIN_DECR	6704
Advisory Line, Flow, Resistance FunctionalDisturbance Pump	Resistance warning	FRW	Flow resistance warning	MDC_EVT_FLOW_FLUID_LINE_RES_WARN	582
Advisory Log, CheckingNecessary FunctionalStatus Device	Check system error log		Advisory: Check Log (a fatal system error was entered in a log object and should be read.)	MDC_EVT_ADVIS_STATUS_LOG_CHK	6698
Advisory PAW, CheckingNecessary FunctionalStatus Ventilator	PAW checking necessary		Checking of airway pressure in a ventilator is necessary.	MDC_EVT_ADVIS_VENT_PRESS_AWAY_CHK	6720
Advisory Sensor, CheckingNecessary FunctionalDisturbance Device	Check sensor		The sensor must be checked.	MDC_EVT_ADVIS_SENSOR_CHK	6696
Advisory Vaporizer, CheckingNecessary FunctionalStatus Ventilator	Vaporizer checking necessary	CHECK VAPOR	Vaporizer is not connected, not known or not allowed.	MDC_EVT_ADVIS_VAPORISER_CHK_DISCONN	6718
Advisory Volume, Syringe, PreAlarm Handling Pump	Syringe pre-alarm (x min)		Syringe needs to be replaced soon.	MDC_EVT_ADVIS_PUMP_SYRINGE_REPLACE_WARN	6712
Advisory WaterTrap, CheckingNecessary FunctionalStatus Ventilator	Water trap checking necessary	WATER TRAP	Checking of water trap in a ventilator is necessary.	MDC_EVT_ADVIS_VENT_WATER_TRAP_CHK	6716
ErrorEvent FunctionalDisturbance Device	Equipment error		Unspecified device error	MDC_EVT_EQU	28
ErrorEvent Handling Device	Handling problem		Not specified, unnormal handling of a device, device component, cabling, or transducer	MDC_EVT_HANDL_ERR	152
ErrorEvent Processing Device	Processing error		Unspecified processing error	MDC_EVT_PROC_ERR	162
ErrorEvent Abnormal FunctionalDisturbance Device	Abnormal		Abnormal condition detected	MDC_EVT_ABNORM	2
ErrorEvent Absent Processing Device	Absent		Absent	MDC_EVT_ABSENT	4

Table A.9.3.1—Nomenclature and codes for device-related and environment-related events (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
ErrorEvent Agent, NotSelected FunctionalDisturbance Ventilator	Agent not selected	AGT NOT SEL		MDC_EVT_VENT_GAS_AGENT_NOT_SELECTED	516
ErrorEvent Agent, VaporIris, Inoperable FunctionalDisturbance Ventilator	Agent vapor iris inoperable	A-VAP ERR	Gaseous agent mixing iris is inoperable in a ventilator (anesthesia).	MDC_EVT_VENT_MIX_IRIS_INOP	528
ErrorEvent Airway, Temperature, HighLimit FunctionalDisturbance Ventilator	High airway temperature	AW-TEMP HIGH	Airway temperature is too high (ventilator).	MDC_EVT_VENT_TEMP_AWAY_HI	504
ErrorEvent Battery FunctionalDisturbance Device	Battery problem		Unspecified battery problem	MDC_EVT_BATT_PROB	198
ErrorEvent Battery, Low FunctionalDisturbance Device	Battery low or dead		Battery discharged or is defective.	MDC_EVT_BATT_LO	194
ErrorEvent BreathingSystem, Stopped FunctionalDisturbance Ventilation	Breath absent		Error Event: Breath Absent (this is not apnea, but a technical ventilator event.)	MDC_EVT_BREATH_ABSENT	136
ErrorEvent BreathingSystem, Vented FunctionalDisturbance Ventilator	Breathing system vented		Breathing system is vented.	MDC_EVT_VENT_BREATHING_SYS_VENTED	532
ErrorEvent Calibration FunctionalDisturbance Device	Calibration error		Calibration is not successful.	MDC_EVT_CALIB_FAIL	138
ErrorEvent CO ₂ , SensorLine, Blocked FunctionalDisturbance Ventilator	Blocked CO ₂ sensor line	CO ₂ LINE BLK		MDC_EVT_VENT_CO2_SENSOR_LINE_OBSTRUC	536
ErrorEvent CO ₂ Absorber, Exhausted FunctionalDisturbance Ventilator	Exh. CO ₂ absorber		Exhausted carbon dioxide absorber	MDC_EVT_VENT_CO2_ABSORB_EXH	534
ErrorEvent Coincidence, Heart, Respiration SignalQuality Device	Pulserate coincidence		Heart rate and respiration rate are reported to be the same value.		3296
ErrorEvent Configuration Processing Device	Configuration error		Device configuration: combination is not valid.	MDC_EVT_CONFIG_ERR	142
ErrorEvent Contaminated FunctionalDisturbance Device	Contaminated		Contaminated	MDC_EVT_CONTAM	14

Table A.9.3.1—Nomenclature and codes for device-related and environment-related events (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
ErrorEvent Cooling, Inoperable FunctionalDisturbance Ventilator	Vent cooling INOP	COOLING INOP	Ventilator device temperature is too high.	MDC_EVT_VENT_TEMP_HI	540
ErrorEvent Cuff, Disconnected FunctionalDisturbance Device	Cuff disconnected	CUFF ERR	Cuff is disconnected or leaking, e.g., in NIBP.	MDC_EVT_NBP_CUFF_DISCONN_OR_LEAK	456
ErrorEvent Cuff, Motions FunctionalDisturbance Device	Motions detected	MOTIONS	Motions are detected, e.g., in NIBP measurement.	MDC_EVT_NBP_MOTION_DETEC	454
ErrorEvent DataAcquisition Communication Device	Data acquisition error		Unspecified problem in data acquisition	MDC_EVT_DATA_ACQN_ERR	482
ErrorEvent DataSemantics Communication Device	Erratic data		Subsystem has received false data packet.	MDC_EVT_MSG_SEMAN_ERR	470
ErrorEvent DataSyntax Communication, Message Device	Corrupt data		Subsystem has received false data packet.	MDC_EVT_MSG_CORRUPT	452
ErrorEvent Defect FunctionalDisturbance Device	Defect		Defect is detected in a device, sensor, etc.	MDC_EVT_DEFECT	16
ErrorEvent Disconnection FunctionalDisturbance Device	Disconnection		Disconnection, e.g., in sampling line	MDC_EVT_DISCONN	22
ErrorEvent Disconnection Handling Ventilator	Ventilator disconnected		Patient is disconnected from ventilator.	MDC_EVT_VENT_DISCONN	564
ErrorEvent Disconnection, <location> FunctionalDisturbance Ventilator	Disconnection		Disconnection of parts in a ventilator, e.g., disconnection in FGF hose	MDC_EVT_VENT_COMPONENT_DISCONN	542
ErrorEvent Disturbed SignalQuality Device	Disturbed		Signal is disturbed.	MDC_EVT_DISTURB	24
ErrorEvent ECG, Lead, Disconnected FunctionalDisturbance Device	ECG lead disconnected		Error Event: (ECG) Lead Disconnected (specialized form of the generic disconnect event. In case of ECG, some ECG devices reconstruct leads when a single lead of a multilead cable falls off. This needs a special user notification, because the situation might not be visible on the display waves. Reasoning: see above.)	MDC_EVT_LEAD_DISCONN	268
ErrorEvent ElectricalPower FunctionalDisturbance Device	Power problem		Electric power line: unspecified problem	MDC_EVT_ELEC_PWR_LINE_PROB	236

Table A.9.3.1—Nomenclature and codes for device-related and environment-related events (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
ErrorEvent Empty FunctionalDisturbance Device	Empty		A reservoir, etc., is empty	MDC_EVT_EMPTY	26
ErrorEvent Enclosure, Open Handling Device	Door open		A door or handle, which must be closed for operation, is open.	MDC_EVT_DOOR_POSN_ERR	476
ErrorEvent Erratic Processing Device	Erratic		Erratic condition is detected.	MDC_EVT_ERRATIC	32
ErrorEvent Exhausted FunctionalDisturbance Device	Exhausted		Exhausted	MDC_EVT_EXH	36
ErrorEvent Failed FunctionalDisturbance Device	Failed		An action, data transmission, etc., failed.	MDC_EVT_FAIL	38
ErrorEvent GasMixer, Inoperable FunctionalDisturbance Ventilator	Inoperable gas mixer		Gas mixer is inoperable.	MDC_EVT_VENT_GAS_MIXER_INOP	544
ErrorEvent GasSupply FunctionalDisturbance Ventilator	Med air/gas/vacuum problem		Problem with gas lines to/from breathing system	MDC_EVT_VENT_GAS_LINE_PROB	548
ErrorEvent Humidity, High Handling Environment	Humidity unacceptable		Too much humidity for accurate measurement	MDC_EVT_HUMID_EXCESS	490
ErrorEvent Incorrect Processing Device	Incorrect		Incorrect result of a calculation, e.g., CRC in data transmission, of a data structure, etc., detected	MDC_EVT_INCORRECT	46
ErrorEvent Inoperable FunctionalDisturbance Device	Inoperable	INOP	(Un)intentional inoperable condition	MDC_EVT_INOP	52
ErrorEvent Inoperable FunctionalDisturbance Ventilator	INOP		Example: gas mixer inoperable	MDC_EVT_VENT_INOP	550
ErrorEvent Interrupted Processing Device	Interrupted		A measurement, process, or data transmission was interrupted.	MDC_EVT_INTERRUPT	56
ErrorEvent InvalidOperation Handling Device	Invalid operation		Unspecified handling error	MDC_EVT_OP_INVALID	406
ErrorEvent Incompatible Processing Device	Incompatible		Incompatibility of nomenclature or processing component, etc.	MDC_EVT_INCOMPAT	600

Table A.9.3.1—Nomenclature and codes for device-related and environment-related events (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
ErrorEvent Irregular Processing Device	Irregular		Irregular rhythm or waveform in a signal, etc.	MDC_EVT_IRREG	58
ErrorEvent Leak FunctionalDisturbance Ventilator	Leak detected		Leak in breathing system	MDC_EVT_VENT_BREATHING_SYS_LEAK	552
ErrorEvent Leakage FunctionalDisturbance Device	Leakage		Leakage in a gas or fluid filled system detected	MDC_EVT_LEAK	60
ErrorEvent Line, Air FunctionalDisturbance Pump	Air in line		Air in fluid line	MDC_EVT_FLUID_LINE_AIR	592
ErrorEvent Line, DripCounter, Malfunction FunctionalDisturbance Pump	Drip alarm		Error in drip counting measurement	MDC_EVT_FLUID_LINE_DRIP_MALF	346
ErrorEvent Line, Flow, Disturbance FunctionalDisturbance Pump	Flow disturbance	FD	Flow disturbance	MDC_EVT_FLUID_LINE_DISTURB	244
ErrorEvent Line, Flow, Occlusion FunctionalDisturbance Pump	Occlusion		Occlusion of fluid line	MDC_EVT_FLUID_LINE_OCCL	332
ErrorEvent Line, FlowSensor, Malfunction FunctionalDisturbance Pump	Flow sensor problem	FSP	Flow sensor problem	MDC_EVT_SENSOR_PROB	312
ErrorEvent Line, Infiltration FunctionalDisturbance Pump	Line infiltration	INFIL	Infiltration of fluid line	MDC_EVT_FLUID_LINE_INFILT	246
ErrorEvent Lost Communication Device	Lost communication		Error Event: Communication Lost	MDC_EVT_COMM_LOST	140
ErrorEvent Lost Processing Device	Lost		Signal or synchronization, etc., was lost.	MDC_EVT_LOST	68
ErrorEvent Malfunction FunctionalDisturbance Device	Malfunction		Malfunction of a device, VMD, or sensor is detected.	MDC_EVT_MALF	70
ErrorEvent Material, Low Handling Device	Material supply low or out		Unspecified tools or agents (e.g., calibration fluids) are low.	MDC_EVT_MATERIAL_LOW_OR_OUT	408
ErrorEvent MaximumRate, Syringe, UserInput, HighLimit Handling Pump	User request error		User keyboard input is higher than available with syringe type (pump).	MDC_EVT_USER_INPUT_DATA_VAL_ERR_HI	568

Table A.9.3.1—Nomenclature and codes for device-related and environment-related events (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
ErrorEvent Measurement Processing Device	Error in analyzing metric		Unspecified error in processing of a biosignal	MDC_EVT_MSMT_ERR	354
ErrorEvent Measurement, Disconnected FunctionalDisturbance Device	Measurement unplugged		Error Event: Measurement Unplugged (e.g., in modular patient monitor. Reasoning: In contrast to the disconnect events below, this event indicates that a measurement module was manually (==voluntarily) removed. Dependent on the alarm configuration of a monitor (specifically, with latched alarms), this condition must be announced to the user; and the user must specifically acknowledge the situation.)	MDC_EVT_MSMT_DISCONN	352
ErrorEvent Measurement, Failed FunctionalDisturbance Device	Measurement failed		Error Event: Measurement Failed (e.g., a noninvasive blood pressure)	MDC_EVT_MSMT_FAIL	356
ErrorEvent Measurement, Interrupted FunctionalDisturbance Device	Measurement interrupted		Error Event: Measurement Interrupted (e.g., a noninvasive blood pressure) (there is a generic interrupted code for processing; however, this code does not have to do with processing. As an example of this code, the user might simply hit a stop button, and this action makes the measurement invalid.)	MDC_EVT_MSMT_INTERRUPT	362
ErrorEvent Measurement, Overrange Processing Device	Measurement range exceeded		Error Event: Measurement Range Exceeded, i.e., the signal is out of the physiological range that is specified in the Metric object.	MDC_EVT_MSMT_RANGE_OVER	364
ErrorEvent Measurement, Light, Interference FunctionalDisturbance Device	Light interference with measurement		Error Event: Light Interference (SpO ₂ measurement, special kind of interference)	MDC_EVT_LIGHT_INTERF	278
ErrorEvent NIBP, Cuff, ImproperlyPlaced SignalQuality Device	Cuff improperly placed	NIBP CUFF ERP		MDC_EVT_CUFF_POSN_ERR	430
ErrorEvent Noisy SignalQuality Device	Noisy		Signal is noisy.	MDC_EVT_NOISY	74
ErrorEvent Nomenclature Communication Device	Nomenclature error		A message contains wrong code.	MDC_EVT_MSG_NOM_ERR	402
ErrorEvent O ₂ , Inspiratory, Inoperable FunctionalDisturbance Ventilator	Inoperable inspiratory O ₂ measurement			MDC_EVT_VENT_PRESS_O2_INSP_INOP	546

Table A.9.3.1—Nomenclature and codes for device-related and environment-related events (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
ErrorEvent Obstruction FunctionalDisturbance Ventilator	Obstruction		Example: obstruction of the endotracheal tube	MDC_EVT_VENT_ENDOTRACH_TUBE_OBSTRUC	508
ErrorEvent Occlusion FunctionalDisturbance Ventilator	Occlusion		Example: occlusion of the endotracheal tube	MDC_EVT_VENT_ENDOTRACH_TUBE_OCCL	538
ErrorEvent Overflowed Processing Device	Overflowed		Overflow was detected in a measurement or calculation.	MDC_EVT_OVERFLOW	90
ErrorEvent Position, Module Handling Device	Component positioning problem		Irregular position of a plug-in device	MDC_EVT_POSN_PROB	160
ErrorEvent PowerSupply FunctionalDisturbance Device	Power problem		Problem in power supply	MDC_EVT_POWER_SUPPLY_PROB	458
ErrorEvent Protocol, Version Communication, Message Device	Version mismatch		Communication error: unknown software version	MDC_EVT_SW_VER_UNK	322
ErrorEvent QualityOfService Communication Device	Quality of service		Unspecified quality of service event	MDC_EVT_SVC_QUALITY	180
ErrorEvent RecordingPaper, Low Handling Device	Paper low or out		Problem with recording paper subdevice	MDC_EVT_ADVIS_REC_PAPER_REPLACE	6694
ErrorEvent ResourceUnavailable FunctionalDisturbance Device	Resource unavailable		A resource is not available.	MDC_EVT_FUNC_UNAVAIL	146
ErrorEvent MultipleReplyUnavailable FunctionalDisturbance Device	Multiple reply unavailable		The multiple reply remote operation function is not available (see Clause 6 in ISO/IEEE 11073-20101)	MDC_EVT_MULT_REPLY_UNAVAIL	602
ErrorEvent Sensor, Disconnected FunctionalDisturbance Device	Sensor disconnected		Sensor disconnection or fault	MDC_EVT_SENSOR_DISCONN	308
ErrorEvent ShortCircuit FunctionalDisturbance Device	Short circuit		A short circuit was detected in a VMD.	MDC_EVT_CKT_SHORT	208
ErrorEvent StateMachine, Recoverable Communication Device	State machine error, recoverable		Recoverable state machine error in communication	MDC_EVT_RECOV_ERR	130

Table A.9.3.1—Nomenclature and codes for device-related and environment-related events (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
ErrorEvent StateMachine, Unrecoverable Communication Device	State machine error, unrecoverable		Unrecoverable state machine error in communication	MDC_EVT_UNRECOV_ERR	134
ErrorEvent Stuck FunctionalDisturbance Ventilator	Stuck		Example: the expiratory valve is stuck.	MDC_EVT_VENT_EXP_VALVE_STUCK	522
ErrorEvent Synchronization, ReceiverOverrun Communication, Message Device	Real-time overrun		Communication timing error: receiver overrun	MDC_EVT_SYNCH_ERR_RCV_OVRUN	182
ErrorEvent Synchronization, Inoperable FunctionalDisturbance Ventilator	Vent sync INOP		Ventilator synchronization inoperable	MDC_EVT_VENT_SYNCH_INOP	518
ErrorEvent Synchronization, BufferOverflow Communication, Message Device	Buffer overflow		Communication timing error: buffer overflow	MDC_EVT_BUFF_OVERFLOW	502
ErrorEvent Synchronization, Framing Communication, Message Device	Framing error		Communication error: framing error	MDC_EVT_FRAM_ERR	472
ErrorEvent Synchronization, Parity Communication, Message Device	Parity error		Communication error: parity error	MDC_EVT_PARITY_ERR	474
ErrorEvent Syntax, Protocol Communication, Message Device	Unanalyzable data		Undefined communication message syntax	MDC_EVT_MSG_SYNTAX_UNDEF	478
ErrorEvent Temperature, High Room Environment	Temperature unacceptable high		Abnormal high environmental temperature	MDC_EVT_TEMP_ENVIRON_HI_ABNORM	488
ErrorEvent Temperature, HighLimit FunctionalDisturbance Ventilator	High ventilator temperature		Respirator device temperature is too high.	MDC_EVT_RESPIRATOR_TEMP_HI	514
ErrorEvent Temperature, Low Room Environment	Temperature unacceptable low		Abnormal low environmental temperature	MDC_EVT_TEMP_ENVIRON_LOW_ABNORM	486
ErrorEvent Timing Processing Device	Timing error		Unspecified timing error	MDC_EVT_TIMING	414

Table A.9.3.1—Nomenclature and codes for device-related and environment-related events (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
ErrorEvent Timing, Synchronization Processing Device	Synchronization error		Error in time synchronization	MDC_EVT_SYNCH_ERR	182
ErrorEvent Transducer FunctionalDisturbance Device	Transducer/ electrode problem		Transducer malfunctioning	MDC_EVT_XDUCR_MALF	338
ErrorEvent Transducer, Disconnected FunctionalDisturbance Device	Transducer disconnected		Error Event: Transducer Disconnected (specialized form of the generic disconnect event for measurements with intelligent exducer.	MDC_EVT_XDUCR_DISCONN	336
ErrorEvent Unanalyzable SignalQuality Device	Signal cannot be analyzed		Error Event: Signal Cannot Be Analyzed (for any secondary derived measurement when the input signal is bad)	MDC_EVT_SIG_UNANALYZEABLE	384
ErrorEvent Unavailable Processing Device	Unavailable		Resource is unavailable.	MDC_EVT_UNAVAIL	110
ErrorEvent Undefined Processing Device	Undefined		Undefined	MDC_EVT_UNDEF	112
ErrorEvent Underflowed Processing Device	Underflowed		Underflow was detected in a measurement or calculation.	MDC_EVT_COMPUT_UNDERFLOW	418
ErrorEvent Unequal Processing Device	Unequal		Unequal	MDC_EVT_UNEQU	116
ErrorEvent Unknown Processing Device	Unknown		VMD or signal is unknown.	MDC_EVT_UNK	118
ErrorEvent Vibration, High FunctionalDisturbance Device	Excessive vibration		Vibration hinders adequate measurement.	MDC_EVT_VIB_PROB	188
ErrorEvent Volume, Measurement, Inoperable FunctionalDisturbance Ventilator	Inoperable volume measurement		The volume measurement in a ventilator is inoperable.	MDC_EVT_VENT_VOL_MSMT_INOP	512
ErrorEvent Volume, Syringe, Empty Handling Pump	Syringe empty		Syringe needs to be replaced immediately.	MDC_EVT_ADVIS_PUMP_SYRINGE_REPLACE_IMMED	6714
ErrorEvent VolumeNotConstant FunctionalDisturbance Ventilator	Vol inconst		Breathing volume is not constant.	MDC_EVT_VENT_VOL_BREATHING_IRREG	510

Table A.9.3.1—Nomenclature and codes for device-related and environment-related events *(continued)*

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
ErrorEvent Waveform, Artifact SignalQuality Device	Artifact		Artifact is detected in a waveform.	MDC_EVT_WAVE_ARTIF_ERR	432
ErrorEvent Waveform, Disturbance SignalQuality Device	Signal quality		Disturbed waveform: result may be erroneous.	MDC_EVT_WAVE_SIG_QUAL_ERR	434
ErrorEvent Waveform, GainAdjustmentRequired FunctionalDisturbance Device	Gain adjustment required		Signal voltage is out of range.	MDC_EVT_VOLTAGE_OUT_OF_RANGE	460
ErrorEvent Waveform, Interference SignalQuality Device	Signal interference		Interference in measurement	MDC_EVT_MSMT_INTERF_ERR	436
ErrorEvent Waveform, Invalid SignalQuality Device	Invalid signal		Shape/amplitude of waveform is abnormal.	MDC_EVT_WAVE_SHAPE_ABNORM	438
ErrorEvent Waveform, LowSignal Processing Device	Underrange error		Signal amplitude is too low for processing, e.g., waveform detection.	MDC_EVT_RANGE_UNDER	168
ErrorEvent Waveform, Noisy SignalQuality Device	Noisy signal		Noisy signal: result may be erroneous.	MDC_EVT_SIG_NOISY	440
ErrorEvent Waveform, NoOscillation SignalQuality Device	No oscillation		Oscillation in waveform is expected, but not found.	MDC_EVT_WAVE_OSCIL_ABSENT	442
ErrorEvent Waveform, NoSignal SignalQuality Device	No signal		Typically, a zero voltage signal	MDC_EVT_SIG_ABSENT	444
ErrorEvent Waveform, Overrange Processing Device	Overrange error		Signal amplitude is too high for processing.	MDC_EVT_RANGE_OVER	166
ErrorEvent Waveform, Range SignalQuality Device	Range error		Signal is out of range.	MDC_EVT_SIG_OUT_OF_RANGE	446
ErrorEvent Waveform, SignalProcessing SignalQuality Device	Signal processing error		Unspecified signal processing error	MDC_EVT_SIG_PROC_ERR	448
ErrorEvent Waveform, Weak SignalQuality Device	Weak signal		Signal gain low: probably erroneous data extraction	MDC_EVT_SIG_GAIN_LO	404
ErrorEvent Weak SignalQuality Device	Weak		Weak signal was detected.	MDC_EVT_WEAK	128

Table A.9.3.1—Nomenclature and codes for device-related and environment-related events *(continued)*

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
LimitEvent AssistedSpontBreathing Ventilator	ASB > x s		Assisted spontaneous breathing is longer than a predefined time span (PSW).		3278
LimitEvent DeliveryTime Handling Pump	Delivery time elapsed		Configured time to deliver whole syringe/bottle is over.	MDC_EVT_PUMP_SYRINGE_DELIV_TIMEOUT	574
LimitEvent High Processing Device	High limit alert	HIGH	A metric exceeds a given threshold.	MDC_EVT_LIMIT_AL_HI	450
LimitEvent High, val>lim Processing Device	Value greater high limit		A metric exceeds a given threshold.	MDC_EVT_HI_VAL_GT_LIM	44
LimitEvent Low, val<lim Processing Device	Value smaller low limit		A metric falls short of a given threshold.	MDC_EVT_LO_VAL_LT_LIM	66
LimitEvent Low Processing Device	Low limit alert	LOW	A metric falls short of a given threshold.	MDC_EVT_LIMIT_AL_LO	554
LimitEvent O ₂ , Concentration, Low FunctionalDisturbance Ventilator	Low O ₂ concentration		Too low oxygen delivery (concentration)	MDC_EVT_VENT_CONC_O2_DELIV_LO	596
LimitEvent O ₂ , Flow, Low FunctionalDisturbance Ventilator	Low O ₂ flow		Too low oxygen delivery (flow)	MDC_EVT_VENT_FLOW_O2_DELIV_LO	594
LimitEvent Pressure, Impediment FunctionalDisturbance Pump	Flow impediment		Flow is hindered.	MDC_EVT_FLOW_OBSTRUC	576
LimitEvent Pressure, Line FunctionalDisturbance Pump	Pressure alarm		Too much pressure in line	MDC_EVT_PRESS_FLUID_LINE_EXCESS	558
LimitEvent StandbyTimeElapsed Handling Pump	Standby time elapsed		Timeout: device should be either operated or turned off.	MDC_EVT_TIMEOUT	584
LimitEvent TotalVolume Handling Pump	Total volume infused		Total volume infused (pump)	MDC_EVT_PUMP_VOL_TBI_COMP	586
LimitEvent Volume, Syringe, Low Handling Pump	End of volume to deliver		Syringe needs to be replaced soon.	MDC_EVT_ADVIS_PUMP_SYRINGE_REPLACE_IMMED	6714
Status FunctionalStatus Device	Functional status			MDC_EVT_STAT_DEV	6278
Status Active FunctionalStatus Device	Active		Active state of, e.g., device	MDC_EVT_STAT_ACTIVE	6198

Table A.9.3.1—Nomenclature and codes for device-related and environment-related events (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
Status Agent, VaporIris, Disabled FunctionalStatus Ventilator	Agent vaporiris disabled	A-VAP OFF	The function of gaseous agent mixing iris in a ventilator (anesthesia machine) is disabled.	MDC_EVT_STAT_VENT_GAS_ MIXER_FUNC_DISABL	6196
Status Alarm FunctionalStatus Device	Alarm	ALARM	Alarm state of, e.g., device or signal	MDC_EVT_STAT_AL	6216
Status Alarm, Off FunctionalStatus Device	Alarm off	ALARM OFF	Indication: Alarm Intentionally Off (disabled)	MDC_EVT_STAT_AL_OFF	6144
Status Alarm, Silenced FunctionalStatus Device	Alarm silenced		Alarm is silenced (speaker off).	MDC_EVT_STAT_AL_SILENCE	6214
Status Apnea, Alarm, Disabled FunctionalStatus Device	Apnea alarm disabled	APNEA ALARM OFF	Apnea alarm is disabled.	MDC_EVT_STAT_APNEA_AL_ DISABL	6274
Status Battery, Charging FunctionalStatus Device	Battery charging		Battery is now being recharged.	MDC_EVT_STAT_BATT_ CHARGING	6150
Status BatteryOperated FunctionalStatus Device	Battery operated		Device is battery operated.	MDC_EVT_STAT_DEV_BATT_ OPERATED	6276
Status Beep, Off FunctionalStatus Device	Beep off		The beep is off (QRS).	MDC_EVT_STAT_QRS_BEEP_ OFF	6272
Status Calibration, Running FunctionalStatus Device	Calibration in progress		Indication: Calibration in Progress, No Measurement Possible	MDC_EVT_STAT_CALIB_ RUNNING	6154
Status Charging FunctionalStatus Device	Charging		Charging state of, e.g., battery	MDC_EVT_STAT_CHARGING	6212
Status CO ₂ , Alarm, Disabled FunctionalStatus Device	CO ₂ alarm disabled	CO ₂ ALARM OFF	Carbon dioxide alarm is disabled.	MDC_EVT_STAT_CO2_AL_ DISABL	6270
Status CO ₂ , NotCalibrated FunctionalStatus Device	CO ₂ not calibrated		Carbon dioxide is not calibrated.	MDC_EVT_STAT_CO2_UNCALIB	6292
Status CO ₂ , WarmUp FunctionalStatus Device	CO ₂ warm-up	CO ₂ WARM UP	Carbon dioxide monitor in warm-up mode	MDC_EVT_STAT_CO2_ WARMING	6268

Table A.9.3.1—Nomenclature and codes for device-related and environment-related events (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
Status ComputerControlled FunctionalStatus Device	Computer controlled		Device, e.g., pump, is in computer-controlled mode.	MDC_EVT_STAT_DEV_MODE_ COMPUT_CNTRLD	6286
Status Connected FunctionalStatus Device	Connected		Connected state of device, sensor, etc.	MDC_EVT_STAT_CONN	6252
Status Depleted FunctionalStatus Device	Depleted		A sensor, absorber, etc., is depleted.	MDC_EVT_STAT_DEPLET	6248
Status Detected Processing Device	Detected		Some signal or special condition was detected.	MDC_EVT_DETEC	20
Status Disconnected FunctionalStatus Device	Disconnected		Disconnection of a sensor, device, etc.	MDC_EVT_STAT_DISCONN	6256
Status Display, Stopped FunctionalStatus Device	Display stopped		The display is stopped.	MDC_EVT_STAT_DISP_STOP	102
Status Door, Closed Room Environment	Door closed		Door in the (sleep measurement) room is closed.	MDC_EVT_STAT_DOOR_CLOS	6244
Status Door, Open Room Environment	Door opened		Door in the (sleep measurement) room is opened.	MDC_EVT_STAT_DOOR_OPEN	6220
Status ECG, Alarm, Disabled Processing Device	ECG alarm disabled		Status: All ECG alarms are off (still need these in France to meet French homologation, despite MDD).	MDC_EVT_STAT_ECG_AL_ALL_ OFF	6182
Status ECG, Alarm, PartiallyDisabled Processing Device	ECG alarm partially disabled		Status: Some ECG alarms are off (still need these in France to meet French homologation, despite MDD).	MDC_EVT_STAT_ECG_AL_ SOME_OFF	6184
Status Lights, Off Room Environment	Lights off	Loff	Lights in the (sleep measurement) room are switched off.	MDC_EVT_LIGHTS_IN_ROOM_ OFF	276
Status Lights, On Room Environment	Lights on	Lon	Lights in the (sleep measurement) room are switched on.	MDC_EVT_STAT_LIGHTS_IN_ ROOM_ON	6260
Status MainsOperated FunctionalStatus Device	Mains operated		Device is mains-operated.	MDC_EVT_STAT_DEV_MAINS_ OPERATED	6284
Status Mode, Adult FunctionalStatus Device	Adult mode		Device is in adult mode.	MDC_EVT_STAT_DEV_MODE_ ADULT	6282
Status Mode, Paediatric FunctionalStatus Device	Paediatric mode		Device is in pediatric mode.	MDC_EVT_STAT_DEV_MODE_ PEDIATRIC	6280

Table A.9.3.1—Nomenclature and codes for device-related and environment-related events (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
Status NIBP, Cuff, Deflating FunctionalStatus Device	Cuff deflating		Noninvasive blood pressure device is deflating cuff and measuring blood pressure.	MDC_EVT_STAT_NBP_DEFL_AND_MEAS_BP	6250
Status NIBP, Cuff, Inflating FunctionalStatus Device	Cuff inflating		Noninvasive blood pressure device is inflating cuff to maximum cuff pressure.	MDC_EVT_STAT_NBP_INFL_TO_MAX_CUFF_PRESS	6222
Status NotCalibrated FunctionalStatus Device	VMD not calibrated		VMD is not calibrated.	MDC_EVT_STAT_UNCALIB	6190
Status Off FunctionalStatus Device	Off	OFF	Device or VMD is in off condition.	MDC_EVT_STAT_OFF	6226
Status Running FunctionalStatus Device	Active/running		Indication: Device Active/Pump Running	MDC_EVT_STAT_RUNNING	6294
Status SighMode, Active FunctionalStatus Ventilator	Sigh mode active		Sigh mode is active.	MDC_EVT_STAT_MODE_SIGH_ACTIVE	6188
Status Sound, Off Room Environment	Sound off	Soff	Sound in the (sleep measurement) room is switched off.	MDC_EVT_STAT_SOUND_IN_ROOM_OFF	6258
Status Sound, On Room Environment	Sound on	Son	Sound in the (sleep measurement) room is switched on.	MDC_EVT_STAT_SOUND_IN_ROOM_ON	6264
Status Standby FunctionalStatus Device	Standby on	STANDBY	Indication: Device In Standby Mode	MDC_EVT_STAT_STANDBY	6228
Status TachyApnea, Alarm, Disabled FunctionalStatus Device	Tachyapnea alarm disabled		Tachyapnea alarm is disabled.	MDC_EVT_STAT_AL_TACHAPNEA_DISABL	6230
Status TachyApnea, Alarm, Disabled FunctionalStatus Ventilator	Tachyapnea alarm disabled		Tachyapnea alarm in a ventilator is disabled.	MDC_EVT_STAT_VENT_AL_TACHAPNEA_DISABL	6210
Status TestMode FunctionalStatus Device	In test mode		Device or VMD is in test mode.	MDC_EVT_STAT_MODE_TEST	6232
Status Volume, PressureLimited FunctionalStatus Ventilator	Respiratory volume pressure limited	PRESSURE LTD	Respiratory volume pressure is limited.	MDC_EVT_STAT_VENT_PRESS_RESP_VOL_LIMITED	6206
Status Volume, TimeLimited FunctionalStatus Ventilator	Respiratory volume time limited	TIME LTD	Respiratory volume time is limited.	MDC_EVT_STAT_VENT_TIME_RESP_VOL_LIMITED	6202

Table A.9.3.1—Nomenclature and codes for device-related and environment-related events (continued)

Systematic name	Common term	Acronym	Description/Definition	Reference ID	Code
Status Waveform, Learning FunctionalStatus Device	Waveform learning		Device or VMD learns waveform for recognition.	MDC_EVT_STAT_WAVE_LEARN	6234
SynchronizationEvent Processing Device	Sync	SYNC	Synchronization event for synchronization of different processes	MDC_EVT_SYNC	426
SynchronizationEvent Inspiration, Started Processing Ventilator	Inspiration started		Sync puls: Start of ventilator inspiratory cycle	MDC_EVT_VENT_CYC_INSP_START	466
SynchronizationEvent Tick Processing Device	Timer tick	TICK	Timer tick of real-time clock for synchronization of all processes	MDC_EVT_TIMER_SYNC_TICK	480

Changes to NEMA Standards Publications PS 3.17

Digital Imaging and Communications in Medicine (DICOM) Part 17: Explanatory Information

Remove from PS 3.17 Section C.3 – URL is invalid

The method used for time synchronization of equipment clocks is implementation or site specific, and therefore outside the scope of this proposal. If required, standard time distribution protocols are available (e.g., NTP, IRIG, GPS).

~~An informative description of time distribution methods can be found at:~~
~~<http://www.bancomm.com/entpApp.htm>~~

A second method of synchronizing acquisitions is to utilize a common reference channel (temporal fiducial), ...

Add new Section to Annex xxxx of PS 3.17

Maybe as a subsection of PS3.17 C Waveforms ?

Annex xxxx Neruophysiology Waveforms

xxxx.1 Purpose of this Annex

This Annex describes some use cases of the Neurophysiology Waveforms.

xxxx. .. Electroencephalography

xxxx. .. Polysomnography

Polysomnography is a multi-parametric test to record different physiological parameters during sleep. The resulting data – the polysomnogram (PSG) – contains different measured quantities, the most important ones are:

- brain activity (EEG)
- eye movements (EOG)
- activity of skeletal muscles (EMG)

Often additionally some of the following parameters are recorded:

- electrical activity of the heart (ECG)
- changes in blood oxygen levels (pulse oximetry)
- respiratory parameters like nasal and oral airflow via pressure transducers in front of nostrils and mouth or chest and abdominal expansion during breathing (via belts)
- sound recordings to measure snoring

Data acquisition is done via a multichannel recording unit attaching multiple sensors to different parts of the patient's body and usually takes several hours. Channel arrangement varies from lab to lab, minimum need is 12 channels: at least three channels for the EEG, two for the EOG, one or two to measure airflow, one or two for chin muscle tone, one or more for leg movements (EMG), one or two for heart rate and rhythm, one for oxygen saturation and one each for the belts detecting chest and abdominal wall movement.

In many cases additionally a video is taken to record the persons movements during sleep.

< standardized setups ... which signals in which case .. >

xxxx. .. Electromyography

EMG = Electromyography

With this electrodiagnostic medicine technique the electrical activity produced by skeletal muscles is detected. An electromyography detects the electric potential generated by muscle cells when these cells are electrically or neurologically activated. The signals can be analysed to detect medical abnormalities, activation level, or recruitment order, or to analyse the biomechanics of human or animal movement.

Two techniques are used. Surface EMG assesses muscle function by recording muscle activity from the surface above the muscle on the skin. Intramuscular EMG uses needle electrodes inserted through the skin into the muscle, often in combination with surface electrodes as reference.

Within Polysomnography only surface EMG is used.

Measured values are in the range of 50uV – 30mV.

xxxx. .. Electrooculography

EOG = Electrooculography

Absence or presence and kind of eye movement is an important measure for classification of the sleep stage, for example show slow-rolling eye movements in less deep sleep stages and rapid, irregular eye movements indicating the REM phase.

Typically two electrodes are used to measure the eye movement. They are placed above or below the outer canthus of each eye.

Measured values are in the same range as the EEG, same sampling rate is used.

xxxx. .. Mapping of miscellaneous of recorded signal data to DICOM waveform objects

DICOM strictly separates different data. Dependent from their meaning and their (physical) properties they shall be kept as different instances, although keeping their temporal relationship.

Therefore different objects shall be used to store the different measured data.

Already existing DICOM Waveform Storage SOP classes, which cover relevant Neurophysiology measures, are:

- **General ECG Waveform Storage** **1.2.840.10008.5.1.4.1.1.9.1.2**
The General Electrocardiogram (ECG) SOP class is used to store digitized electrical signals from the patient cardiac conduction system collected on the body surface, which has been acquired by an ECG modality or by an ECG acquisition function within an imaging modality or a recording device¹.
- **Basic Voice Audio Waveform Storage** **1.2.840.10008.5.1.4.1.1.9.4.1**
The Basic Voice Audio SOP class is used to store digitized sound that has been acquired or

¹ The DICOM standard uses the wording „acquisition function within an *imaging modality*“. This should be changed as suggested.

created by an audio modality or by an audio acquisition function within an imaging modality or a recording device¹. A typical use is report dictation.
In the context of Polysomnography this object could be used for snoring detection.

- Arterial Pulse Waveform Storage** 1.2.840.10008.5.1.4.1.1.9.5.1
 The Arterial Pulse Waveform SOP class is used to store digitized electrical signals from the patient arterial system collected through pulse oximetry or other means by a Pulse modality or by a Pulse acquisition function within an imaging modality or a recording device¹.
 In the context of polysomnography this object could be used to record the oxygen saturation in blood.
- Respiratory Waveform Storage** 1.2.840.10008.5.1.4.1.1.9.6.1
 The Respiratory Waveform SOP class is used to store digitized electrical signals from the patient respiratory system, which has been acquired by a Respiratory modality or by a Respiratory acquisition function within an imaging modality or a recording device¹.
 In the context of polysomnography this object could be used to record the patient's respiration.
- Video Photographic Image Storage** 1.2.840.10008.5.1.4.1.1.77.1.4.1
<TODO: add description and list of possible transfer syntaxes = video codecs>

Together with the SOP Classes defined in this supplement

- Routine Scalp Electroencephalography Waveform Storage
- Electromyography Waveform Storage
- Electrooculography Waveform Storage

a broad variety of signals acquired in Polysomnography is covered.

Missing: How to deal with arbitrary channels ("generic waveform")

The following gives some examples of channel labels (proprietary, EDF, ...) and proposes a mapping to DICOM SOP Classes

Channel label	Prop. data format	supposed meaning	Mapping to SOP Class
ECG	Prop.	ECG	General ECG Waveform Storage
RSH	Prop.	derived via an electrode on the right shoulder	EEG / arbitrary position
RES	EDF	Respiration	Respiratory Waveform Storage
AIRFLOW	EDF	Respiration	Respiratory Waveform Storage
LIGHT	EDF	information about light on/off	??? could possibly be part of Acquisition Context or stored as an Annotation sep. Channel in case of photic stimulation ??
PR	EDF	??	
STAT	EDF	??	
ROC	EDF	??	
PLETH	EDF	??	

TORACE	EDF	??	
HR	EDF	?? / maybe heart rate	?? / Arterial Pulse Waveforms Storage
MIC	EDF	Snoring	Basic Voice Audio Waveform Storage
NAF	Prop.	nasal air flow	Respiratory Waveform Storage
THO	Prop.	movement of the thorax due to breathing	Respiratory Waveform Storage ?
ABD	Prop.	movement of the abdomen due to breathing	Respiratory Waveform Storage ?
BODY	Prop.	body position	
POSITION	EDF	body position	
		body temperature	

xxxx. .. Example DICOM Routine Scalp EEG Waveform Object

Setup: 24 leads: 1 ECG, 23 EEG

The following is a non-comprehensive sample representation of a 23-lead Routine EEG object.

Nesting	Attribute	Tag	VR	VL (hex)	Value
	SOP Class UID	(0008,0016)	UI	0020	1.3.6.1.4.1.23154.1.2.1.1.9.7.1
	SOP Instance UID	(0008,0018)	UI	0036	1.3.6.1.4.1.23154.1.4.2881783832.12156.1533548323.951
	Study Date	(0008,0020)	DA	0008	20180805
	Content Date	(0008,0023)	DA	0008	20180806
	Acquisition Date Time	(0008,002a)	DT	0016	20000101000000.000000
	Study Time	(0008,0030)	TM	000e	114000.000000
	Content Time	(0008,0033)	TM	0006	113843
	Accession Number	(0008,0050)	SH	0008	76123455
	Modality	(0008,0060)	CS	0004	EEG
	Manufacturer	(0008,0070)	LO	0014	someManufacturerName
	Referring Physician's Name	(0008,0090)	PN	0000	
	Patient's Name	(0010,0010)	PN	000c	PATIENT1^edf
	Patient ID	(0010,0020)	LO	000a	ssspid0815
	Patient's Birth Date	(0010,0030)	DA	0008	19670329

Nesting	Attribute	Tag	VR	VL (hex)	Value
	Patient's Sex	(0010,0040)	CS	0002	F
	Synchronization Trigger	(0018,106a)	CS	000a	NO TRIGGER
	Acquisition Time Synchronized	(0018,1800)	CS	0002	Y
	Study Instance UID	(0020,000d)	UI	0036	1.3.6.1.4.1.23154.1.2.2881783832.12156.1533548324.952
	Series Instance UID	(0020,000e)	UI	0036	1.3.6.1.4.1.23154.1.3.2881783832.12156.1533548324.953
	Study ID	(0020,0010)	SH	0004	4711
	Series Number	(0020,0011)	IS	0002	1
	Instance Number	(0020,0013)	IS	0002	1
	Synchronization Frame of Reference UID	(0020,0200)	UI	0036	1.3.6.1.4.1.23154.1.5.2881783832.12156.1533548324.954
	Acquisition Context Sequence	(0040,0555)	SQ	ffffff	
%endseq					
	Waveform Sequence	(5400,0100)	SQ	ffffff	
%item					
	Waveform Originality	(003a,0004)	CS	0008	DERIVED
	Number of Waveform Channels	(003a,0005)	US	0002	0x0017
	Number of Waveform Samples	(003a,0010)	UL	0004	0x001c1700
	Sampling Frequency	(003a,001a)	DS	0004	256
	Multiplex Group Label	(003a,0020)	SH	0004	EEG
	Channel Definition Sequence	(003a,0200)	SQ	ffffff	
%item					
	Waveform Channel Number	(003a,0202)	IS	0002	1
	Channel Label	(003a,0203)	SH	0002	O1
	Channel Source Sequence	(003a,0208)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0006	7:1209
	Coding Scheme Designator	(0008,0102)	SH	0004	MDC
	Code Meaning	(0008,0104)	LO	001e	Occipital (theta 90, phi 252)
%enditem					

Nesting	Attribute	Tag	VR	VL (hex)	Value
%endseq					
	Channel Sensitivity	(003a,0210)	DS	0008	0.100008
	Channel Sensitivity Units Sequence	(003a,0211)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0002	uV
	Coding Scheme Designator	(0008,0102)	SH	0004	UCUM
	Code Meaning	(0008,0104)	LO	000a	microVolt
%enditem					
%endseq					
	Channel Sensitivity Correction Factor	(003a,0212)	DS	0002	1
	Channel Baseline	(003a,0213)	DS	000a	0.0500038
	Channel Sample Skew	(003a,0215)	DS	0002	0
	Channel Offset	(003a,0218)	DS	0002	0
	Waveform Bits Stored	(003a,021a)	US	0002	0x0010
%enditem					
%item					
	Waveform Channel Number	(003a,0202)	IS	0002	2
	Channel Label	(003a,0203)	SH	0002	P3
	Channel Source Sequence	(003a,0208)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0006	7:1185
	Coding Scheme Designator	(0008,0102)	SH	0004	MDC
	Code Meaning	(0008,0104)	LO	001e	Parietal (theta 64, phi 230.9)
%enditem					
%endseq					
	Channel Sensitivity	(003a,0210)	DS	0008	0.100008
	Channel Sensitivity Units Sequence	(003a,0211)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0002	uV
	Coding Scheme Designator	(0008,0102)	SH	0004	UCUM

Nesting	Attribute	Tag	VR	VL (hex)	Value
	Code Meaning	(0008,0104)	LO	000a	microVolt
%enditem					
%endseq					
	Channel Sensitivity Correction Factor	(003a,0212)	DS	0002	1
	Channel Baseline	(003a,0213)	DS	000a	0.0500038
	Channel Sample Skew	(003a,0215)	DS	0002	0
	Channel Offset	(003a,0218)	DS	0002	0
	Waveform Bits Stored	(003a,021a)	US	0002	0x0010
%enditem					
%item					
	Waveform Channel Number	(003a,0202)	IS	0002	3
	Channel Label	(003a,0203)	SH	0002	C3
	Channel Source Sequence	(003a,0208)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0006	7:1137
	Coding Scheme Designator	(0008,0102)	SH	0004	MDC
	Code Meaning	(0008,0104)	LO	001c	Central (theta 45, phi 180)
%enditem					
%endseq					
	Channel Sensitivity	(003a,0210)	DS	0008	0.100008
	Channel Sensitivity Units Sequence	(003a,0211)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0002	uV
	Coding Scheme Designator	(0008,0102)	SH	0004	UCUM
	Code Meaning	(0008,0104)	LO	000a	microVolt
%enditem					
%endseq					
	Channel Sensitivity Correction Factor	(003a,0212)	DS	0002	1
	Channel Baseline	(003a,0213)	DS	000a	0.0500038
	Channel Sample Skew	(003a,0215)	DS	0002	0

Nesting	Attribute	Tag	VR	VL (hex)	Value
	Channel Offset	(003a,0218)	DS	0002	0
	Waveform Bits Stored	(003a,021a)	US	0002	0x0010
%enditem					
%item					
	Waveform Channel Number	(003a,0202)	IS	0002	4
	Channel Label	(003a,0203)	SH	0002	F3
	Channel Source Sequence	(003a,0208)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0006	7:1057
	Coding Scheme Designator	(0008,0102)	SH	0004	MDC
	Code Meaning	(0008,0104)	LO	001e	Frontal (theta 64, phi 129.1)
%enditem					
%endseq					
	Channel Sensitivity	(003a,0210)	DS	0008	0.100008
	Channel Sensitivity Units Sequence	(003a,0211)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0002	uV
	Coding Scheme Designator	(0008,0102)	SH	0004	UCUM
	Code Meaning	(0008,0104)	LO	000a	microVolt
%enditem					
%endseq					
	Channel Sensitivity Correction Factor	(003a,0212)	DS	0002	1
	Channel Baseline	(003a,0213)	DS	000a	0.0500038
	Channel Sample Skew	(003a,0215)	DS	0002	0
	Channel Offset	(003a,0218)	DS	0002	0
	Waveform Bits Stored	(003a,021a)	US	0002	0x0010
%enditem					
%item					
	Waveform Channel Number	(003a,0202)	IS	0002	5
	Channel Label	(003a,0203)	SH	0004	FP1

Nesting	Attribute	Tag	VR	VL (hex)	Value
	Channel Source Sequence	(003a,0208)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0006	7:1041
	Coding Scheme Designator	(0008,0102)	SH	0004	MDC
	Code Meaning	(0008,0104)	LO	0020	Frontpolar (theata 90, phi 108)
%enditem					
%endseq					
	Channel Sensitivity	(003a,0210)	DS	0008	0.100008
	Channel Sensitivity Units Sequence	(003a,0211)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0002	uV
	Coding Scheme Designator	(0008,0102)	SH	0004	UCUM
	Code Meaning	(0008,0104)	LO	000a	microVolt
%enditem					
%endseq					
	Channel Sensitivity Correction Factor	(003a,0212)	DS	0002	1
	Channel Baseline	(003a,0213)	DS	000a	0.0500038
	Channel Sample Skew	(003a,0215)	DS	0002	0
	Channel Offset	(003a,0218)	DS	0002	0
	Waveform Bits Stored	(003a,021a)	US	0002	0x0010
%enditem					
%item					
	Waveform Channel Number	(003a,0202)	IS	0002	6
	Channel Label	(003a,0203)	SH	0002	P7
	Channel Source Sequence	(003a,0208)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0006	7:1257
	Coding Scheme Designator	(0008,0102)	SH	0004	MDC
	Code Meaning	(0008,0104)	LO	001c	Temporal (theta 90, phi 216)
%enditem					

Nesting	Attribute	Tag	VR	VL (hex)	Value
%endseq					
	Channel Sensitivity	(003a,0210)	DS	0008	0.100008
	Channel Sensitivity Units Sequence	(003a,0211)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0002	uV
	Coding Scheme Designator	(0008,0102)	SH	0004	UCUM
	Code Meaning	(0008,0104)	LO	000a	microVolt
%enditem					
%endseq					
	Channel Sensitivity Correction Factor	(003a,0212)	DS	0002	1
	Channel Baseline	(003a,0213)	DS	000a	0.0500038
	Channel Sample Skew	(003a,0215)	DS	0002	0
	Channel Offset	(003a,0218)	DS	0002	0
	Waveform Bits Stored	(003a,021a)	US	0002	0x0010
%enditem					
%item					
	Waveform Channel Number	(003a,0202)	IS	0002	7
	Channel Label	(003a,0203)	SH	0002	T7
	Channel Source Sequence	(003a,0208)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0006	7:1249
	Coding Scheme Designator	(0008,0102)	SH	0004	MDC
	Code Meaning	(0008,0104)	LO	001c	Temporal (theta 90, phi 180)
%enditem					
%endseq					
	Channel Sensitivity	(003a,0210)	DS	0008	0.100008
	Channel Sensitivity Units Sequence	(003a,0211)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0002	uV
	Coding Scheme Designator	(0008,0102)	SH	0004	UCUM

Nesting	Attribute	Tag	VR	VL (hex)	Value
	Code Meaning	(0008,0104)	LO	000a	microVolt
%enditem					
%endseq					
	Channel Sensitivity Correction Factor	(003a,0212)	DS	0002	1
	Channel Baseline	(003a,0213)	DS	000a	0.0500038
	Channel Sample Skew	(003a,0215)	DS	0002	0
	Channel Offset	(003a,0218)	DS	0002	0
	Waveform Bits Stored	(003a,021a)	US	0002	0x0010
%enditem					
%item					
	Waveform Channel Number	(003a,0202)	IS	0002	8
	Channel Label	(003a,0203)	SH	0002	F7
	Channel Source Sequence	(003a,0208)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0006	7:1073
	Coding Scheme Designator	(0008,0102)	SH	0004	MDC
	Code Meaning	(0008,0104)	LO	001c	Frontal (theta 90, phi 144)
%enditem					
%endseq					
	Channel Sensitivity	(003a,0210)	DS	0008	0.100008
	Channel Sensitivity Units Sequence	(003a,0211)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0002	uV
	Coding Scheme Designator	(0008,0102)	SH	0004	UCUM
	Code Meaning	(0008,0104)	LO	000a	microVolt
%enditem					
%endseq					
	Channel Sensitivity Correction Factor	(003a,0212)	DS	0002	1
	Channel Baseline	(003a,0213)	DS	000a	0.0500038
	Channel Sample Skew	(003a,0215)	DS	0002	0

Nesting	Attribute	Tag	VR	VL (hex)	Value
	Channel Offset	(003a,0218)	DS	0002	0
	Waveform Bits Stored	(003a,021a)	US	0002	0x0010
%enditem					
%item					
	Waveform Channel Number	(003a,0202)	IS	0002	9
	Channel Label	(003a,0203)	SH	0002	O2
	Channel Source Sequence	(003a,0208)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0006	7:1214
	Coding Scheme Designator	(0008,0102)	SH	0004	MDC
	Code Meaning	(0008,0104)	LO	001e	Occipital (theta 90, phi 288)
%enditem					
%endseq					
	Channel Sensitivity	(003a,0210)	DS	0008	0.100008
	Channel Sensitivity Units Sequence	(003a,0211)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0002	uV
	Coding Scheme Designator	(0008,0102)	SH	0004	UCUM
	Code Meaning	(0008,0104)	LO	000a	microVolt
%enditem					
%endseq					
	Channel Sensitivity Correction Factor	(003a,0212)	DS	0002	1
	Channel Baseline	(003a,0213)	DS	000a	0.0500038
	Channel Sample Skew	(003a,0215)	DS	0002	0
	Channel Offset	(003a,0218)	DS	0002	0
	Waveform Bits Stored	(003a,021a)	US	0002	0x0010
%enditem					
%item					
	Waveform Channel Number	(003a,0202)	IS	0002	10
	Channel Label	(003a,0203)	SH	0002	P4

Nesting	Attribute	Tag	VR	VL (hex)	Value
	Channel Source Sequence	(003a,0208)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0006	7:1190
	Coding Scheme Designator	(0008,0102)	SH	0004	MDC
	Code Meaning	(0008,0104)	LO	001e	Parietal (theta 64, phi 309.1)
%enditem					
%endseq					
	Channel Sensitivity	(003a,0210)	DS	0008	0.100008
	Channel Sensitivity Units Sequence	(003a,0211)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0002	uV
	Coding Scheme Designator	(0008,0102)	SH	0004	UCUM
	Code Meaning	(0008,0104)	LO	000a	microVolt
%enditem					
%endseq					
	Channel Sensitivity Correction Factor	(003a,0212)	DS	0002	1
	Channel Baseline	(003a,0213)	DS	000a	0.0500038
	Channel Sample Skew	(003a,0215)	DS	0002	0
	Channel Offset	(003a,0218)	DS	0002	0
	Waveform Bits Stored	(003a,021a)	US	0002	0x0010
%enditem					
%item					
	Waveform Channel Number	(003a,0202)	IS	0002	11
	Channel Label	(003a,0203)	SH	0002	C4
	Channel Source Sequence	(003a,0208)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0006	7:1142
	Coding Scheme Designator	(0008,0102)	SH	0004	MDC
	Code Meaning	(0008,0104)	LO	001a	Central (theta 45, phi 0)
%enditem					

Nesting	Attribute	Tag	VR	VL (hex)	Value
%endseq					
	Channel Sensitivity	(003a,0210)	DS	0008	0.100008
	Channel Sensitivity Units Sequence	(003a,0211)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0002	uV
	Coding Scheme Designator	(0008,0102)	SH	0004	UCUM
	Code Meaning	(0008,0104)	LO	000a	microVolt
%enditem					
%endseq					
	Channel Sensitivity Correction Factor	(003a,0212)	DS	0002	1
	Channel Baseline	(003a,0213)	DS	000a	0.0500038
	Channel Sample Skew	(003a,0215)	DS	0002	0
	Channel Offset	(003a,0218)	DS	0002	0
	Waveform Bits Stored	(003a,021a)	US	0002	0x0010
%enditem					
%item					
	Waveform Channel Number	(003a,0202)	IS	0002	12
	Channel Label	(003a,0203)	SH	0002	F4
	Channel Source Sequence	(003a,0208)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0006	7:1062
	Coding Scheme Designator	(0008,0102)	SH	0004	MDC
	Code Meaning	(0008,0104)	LO	001c	Frontal (theta 64, phi 50.9)
%enditem					
%endseq					
	Channel Sensitivity	(003a,0210)	DS	0008	0.100008
	Channel Sensitivity Units Sequence	(003a,0211)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0002	uV
	Coding Scheme Designator	(0008,0102)	SH	0004	UCUM

Nesting	Attribute	Tag	VR	VL (hex)	Value
	Code Meaning	(0008,0104)	LO	000a	microVolt
%enditem					
%endseq					
	Channel Sensitivity Correction Factor	(003a,0212)	DS	0002	1
	Channel Baseline	(003a,0213)	DS	000a	0.0500038
	Channel Sample Skew	(003a,0215)	DS	0002	0
	Channel Offset	(003a,0218)	DS	0002	0
	Waveform Bits Stored	(003a,021a)	US	0002	0x0010
%enditem					
%item					
	Waveform Channel Number	(003a,0202)	IS	0002	13
	Channel Label	(003a,0203)	SH	0004	FP2
	Channel Source Sequence	(003a,0208)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0006	7:1042
	Coding Scheme Designator	(0008,0102)	SH	0004	MDC
	Code Meaning	(0008,0104)	LO	001e	Frontpolar (theta 90, phi 72)
%enditem					
%endseq					
	Channel Sensitivity	(003a,0210)	DS	0008	0.100008
	Channel Sensitivity Units Sequence	(003a,0211)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0002	uV
	Coding Scheme Designator	(0008,0102)	SH	0004	UCUM
	Code Meaning	(0008,0104)	LO	000a	microVolt
%enditem					
%endseq					
	Channel Sensitivity Correction Factor	(003a,0212)	DS	0002	1
	Channel Baseline	(003a,0213)	DS	000a	0.0500038
	Channel Sample Skew	(003a,0215)	DS	0002	0

Nesting	Attribute	Tag	VR	VL (hex)	Value
	Channel Offset	(003a,0218)	DS	0002	0
	Waveform Bits Stored	(003a,021a)	US	0002	0x0010
%enditem					
%item					
	Waveform Channel Number	(003a,0202)	IS	0002	14
	Channel Label	(003a,0203)	SH	0002	P8
	Channel Source Sequence	(003a,0208)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0006	7:1262
	Coding Scheme Designator	(0008,0102)	SH	0004	MDC
	Code Meaning	(0008,0104)	LO	001c	Temporal (theta 90, phi 324)
%enditem					
%endseq					
	Channel Sensitivity	(003a,0210)	DS	0008	0.100008
	Channel Sensitivity Units Sequence	(003a,0211)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0002	uV
	Coding Scheme Designator	(0008,0102)	SH	0004	UCUM
	Code Meaning	(0008,0104)	LO	000a	microVolt
%enditem					
%endseq					
	Channel Sensitivity Correction Factor	(003a,0212)	DS	0002	1
	Channel Baseline	(003a,0213)	DS	000a	0.0500038
	Channel Sample Skew	(003a,0215)	DS	0002	0
	Channel Offset	(003a,0218)	DS	0002	0
	Waveform Bits Stored	(003a,021a)	US	0002	0x0010
%enditem					
%item					
	Waveform Channel Number	(003a,0202)	IS	0002	15
	Channel Label	(003a,0203)	SH	0002	T8

Nesting	Attribute	Tag	VR	VL (hex)	Value
	Channel Source Sequence	(003a,0208)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0006	7:1254
	Coding Scheme Designator	(0008,0102)	SH	0004	MDC
	Code Meaning	(0008,0104)	LO	001a	Temporal (theta 90, phi 0)
%enditem					
%endseq					
	Channel Sensitivity	(003a,0210)	DS	0008	0.100008
	Channel Sensitivity Units Sequence	(003a,0211)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0002	uV
	Coding Scheme Designator	(0008,0102)	SH	0004	UCUM
	Code Meaning	(0008,0104)	LO	000a	microVolt
%enditem					
%endseq					
	Channel Sensitivity Correction Factor	(003a,0212)	DS	0002	1
	Channel Baseline	(003a,0213)	DS	000a	0.0500038
	Channel Sample Skew	(003a,0215)	DS	0002	0
	Channel Offset	(003a,0218)	DS	0002	0
	Waveform Bits Stored	(003a,021a)	US	0002	0x0010
%enditem					
%item					
	Waveform Channel Number	(003a,0202)	IS	0002	16
	Channel Label	(003a,0203)	SH	0002	F8
	Channel Source Sequence	(003a,0208)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0006	7:1078
	Coding Scheme Designator	(0008,0102)	SH	0004	MDC
	Code Meaning	(0008,0104)	LO	001a	Frontal (theta 90, phi 36)
%enditem					

Nesting	Attribute	Tag	VR	VL (hex)	Value
%endseq					
	Channel Sensitivity	(003a,0210)	DS	0008	0.100008
	Channel Sensitivity Units Sequence	(003a,0211)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0002	uV
	Coding Scheme Designator	(0008,0102)	SH	0004	UCUM
	Code Meaning	(0008,0104)	LO	000a	microVolt
%enditem					
%endseq					
	Channel Sensitivity Correction Factor	(003a,0212)	DS	0002	1
	Channel Baseline	(003a,0213)	DS	000a	0.0500038
	Channel Sample Skew	(003a,0215)	DS	0002	0
	Channel Offset	(003a,0218)	DS	0002	0
	Waveform Bits Stored	(003a,021a)	US	0002	0x0010
%enditem					
%item					
	Waveform Channel Number	(003a,0202)	IS	0002	17
	Channel Label	(003a,0203)	SH	0002	FZ
	Channel Source Sequence	(003a,0208)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0006	7:1008
	Coding Scheme Designator	(0008,0102)	SH	0004	MDC
	Code Meaning	(0008,0104)	LO	001a	Frontal (theta 45, phi 90
%enditem					
%endseq					
	Channel Sensitivity	(003a,0210)	DS	0008	0.100008
	Channel Sensitivity Units Sequence	(003a,0211)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0002	uV
	Coding Scheme Designator	(0008,0102)	SH	0004	UCUM

Nesting	Attribute	Tag	VR	VL (hex)	Value
	Code Meaning	(0008,0104)	LO	000a	microVolt
%enditem					
%endseq					
	Channel Sensitivity Correction Factor	(003a,0212)	DS	0002	1
	Channel Baseline	(003a,0213)	DS	000a	0.0500038
	Channel Sample Skew	(003a,0215)	DS	0002	0
	Channel Offset	(003a,0218)	DS	0002	0
	Waveform Bits Stored	(003a,021a)	US	0002	0x0010
%enditem					
%item					
	Waveform Channel Number	(003a,0202)	IS	0002	18
	Channel Label	(003a,0203)	SH	0002	CZ
	Channel Source Sequence	(003a,0208)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0006	7:1016
	Coding Scheme Designator	(0008,0102)	SH	0004	MDC
	Code Meaning	(0008,0104)	LO	0018	Central (theta 0, phi 0)
%enditem					
%endseq					
	Channel Sensitivity	(003a,0210)	DS	0008	0.100008
	Channel Sensitivity Units Sequence	(003a,0211)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0002	uV
	Coding Scheme Designator	(0008,0102)	SH	0004	UCUM
	Code Meaning	(0008,0104)	LO	000a	microVolt
%enditem					
%endseq					
	Channel Sensitivity Correction Factor	(003a,0212)	DS	0002	1
	Channel Baseline	(003a,0213)	DS	000a	0.0500038
	Channel Sample Skew	(003a,0215)	DS	0002	0

Nesting	Attribute	Tag	VR	VL (hex)	Value
	Channel Offset	(003a,0218)	DS	0002	0
	Waveform Bits Stored	(003a,021a)	US	0002	0x0010
%enditem					
%item					
	Waveform Channel Number	(003a,0202)	IS	0002	19
	Channel Label	(003a,0203)	SH	0002	PZ
	Channel Source Sequence	(003a,0208)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0006	7:1024
	Coding Scheme Designator	(0008,0102)	SH	0004	MDC
	Code Meaning	(0008,0104)	LO	001c	Parietal (theta 45, phi 270)
%enditem					
%endseq					
	Channel Sensitivity	(003a,0210)	DS	0008	0.100008
	Channel Sensitivity Units Sequence	(003a,0211)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0002	uV
	Coding Scheme Designator	(0008,0102)	SH	0004	UCUM
	Code Meaning	(0008,0104)	LO	000a	microVolt
%enditem					
%endseq					
	Channel Sensitivity Correction Factor	(003a,0212)	DS	0002	1
	Channel Baseline	(003a,0213)	DS	000a	0.0500038
	Channel Sample Skew	(003a,0215)	DS	0002	0
	Channel Offset	(003a,0218)	DS	0002	0
	Waveform Bits Stored	(003a,021a)	US	0002	0x0010
%enditem					
%item					
	Waveform Channel Number	(003a,0202)	IS	0002	20
	Channel Label	(003a,0203)	SH	0004	SP2

Nesting	Attribute	Tag	VR	VL (hex)	Value
	Channel Source Sequence	(003a,0208)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0006	7:1314
	Coding Scheme Designator	(0008,0102)	SH	0004	MDC
	Code Meaning	(0008,0104)	LO	000a	Sphenoidal
%enditem					
%endseq					
	Channel Sensitivity	(003a,0210)	DS	0008	0.100008
	Channel Sensitivity Units Sequence	(003a,0211)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0002	uV
	Coding Scheme Designator	(0008,0102)	SH	0004	UCUM
	Code Meaning	(0008,0104)	LO	000a	microVolt
%enditem					
%endseq					
	Channel Sensitivity Correction Factor	(003a,0212)	DS	0002	1
	Channel Baseline	(003a,0213)	DS	000a	0.0500038
	Channel Sample Skew	(003a,0215)	DS	0002	0
	Channel Offset	(003a,0218)	DS	0002	0
	Waveform Bits Stored	(003a,021a)	US	0002	0x0010
%enditem					
%item					
	Waveform Channel Number	(003a,0202)	IS	0002	21
	Channel Label	(003a,0203)	SH	0004	SP1
	Channel Source Sequence	(003a,0208)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0006	7:1313
	Coding Scheme Designator	(0008,0102)	SH	0004	MDC
	Code Meaning	(0008,0104)	LO	000a	Sphenoidal
%enditem					

Nesting	Attribute	Tag	VR	VL (hex)	Value
%endseq					
	Channel Sensitivity	(003a,0210)	DS	0008	0.100008
	Channel Sensitivity Units Sequence	(003a,0211)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0002	uV
	Coding Scheme Designator	(0008,0102)	SH	0004	UCUM
	Code Meaning	(0008,0104)	LO	000a	microVolt
%enditem					
%endseq					
	Channel Sensitivity Correction Factor	(003a,0212)	DS	0002	1
	Channel Baseline	(003a,0213)	DS	000a	0.0500038
	Channel Sample Skew	(003a,0215)	DS	0002	0
	Channel Offset	(003a,0218)	DS	0002	0
	Waveform Bits Stored	(003a,021a)	US	0002	0x0010
%enditem					
%item					
	Waveform Channel Number	(003a,0202)	IS	0002	23
	Channel Label	(003a,0203)	SH	0004	FT9
	Channel Source Sequence	(003a,0208)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0006	7:1121
	Coding Scheme Designator	(0008,0102)	SH	0004	MDC
	Code Meaning	(0008,0104)	LO	0028	Frontotemporal (theta 108.7, phi 164.3)
%enditem					
%endseq					
	Channel Sensitivity	(003a,0210)	DS	0008	0.100008
	Channel Sensitivity Units Sequence	(003a,0211)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0002	uV
	Coding Scheme Designator	(0008,0102)	SH	0004	UCUM

Nesting	Attribute	Tag	VR	VL (hex)	Value
	Code Meaning	(0008,0104)	LO	000a	microVolt
%enditem					
%endseq					
	Channel Sensitivity Correction Factor	(003a,0212)	DS	0002	1
	Channel Baseline	(003a,0213)	DS	000a	0.0500038
	Channel Sample Skew	(003a,0215)	DS	0002	0
	Channel Offset	(003a,0218)	DS	0002	0
	Waveform Bits Stored	(003a,021a)	US	0002	0x0010
%enditem					
%item					
	Waveform Channel Number	(003a,0202)	IS	0002	24
	Channel Label	(003a,0203)	SH	0004	FT10
	Channel Source Sequence	(003a,0208)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0006	7:1126
	Coding Scheme Designator	(0008,0102)	SH	0004	MDC
	Code Meaning	(0008,0104)	LO	0026	Frontotemporal (theta 108.7, phi 15.7)
%enditem					
%endseq					
	Channel Sensitivity	(003a,0210)	DS	0008	0.100008
	Channel Sensitivity Units Sequence	(003a,0211)	SQ	ffffff	
%item					
	Code Value	(0008,0100)	SH	0002	uV
	Coding Scheme Designator	(0008,0102)	SH	0004	UCUM
	Code Meaning	(0008,0104)	LO	000a	microVolt
%enditem					
%endseq					
	Channel Sensitivity Correction Factor	(003a,0212)	DS	0002	1
	Channel Baseline	(003a,0213)	DS	000a	0.0500038
	Channel Sample Skew	(003a,0215)	DS	0002	0

Nesting	Attribute	Tag	VR	VL (hex)	Value
	Channel Offset	(003a,0218)	DS	0002	0
	Waveform Bits Stored	(003a,021a)	US	0002	0x0010
%enditem					
%endseq					
	Waveform Bits Allocated	(5400,1004)	US	0002	0x0010
	Waveform Sample Interpretation	(5400,1006)	CS	0002	SS
	Waveform Data	(5400,1010)	OX	50c2200	...
%enditem					
%endseq					