

Add TQ1 segment to the PCD-03 message spec

IHE Change Proposal

Tracking information:

IHE Domain	Patient Care Device (PCD).
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Change Proposal Summary information:

Add TQ1 segment to the PCD-03 message spec	
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Integration Profile(s) affected:	PIV
Actor(s) affected:	IOC and IOP
IHE Technical Framework or Supplement modified:	Revision 1.2; September 30, 2010
Volume(s) and Section(s) affected:	Volume 2
Rationale for Change: Some drugs can be ordered with a total dose (g, mg, mcg/kg, etc) and a duration. The infuser should be able to get these two parameters and calculate a rate.	

Update row 43 in Table 3.3.4.2 RGV^O15^RGV_O15 Pharmacy/Treatment Give Message:

3.3.4.2 RGV^O15^RGV_O15 Pharmacy/Treatment Give Message

Segment	Meaning	Usage	Card	HL7 Chapter
MSH	Message Header	R	[1..1]	2
[{ SFT }]	Software	X		2
[{ NTE }]	Notes and Comments (for Header)	X		2
[--- PATIENT begin			
PID	Patient Identification	R	[1..1]	3
[{ NTE }]	Notes and Comments (for PID)	X		2
[{ AL1 }]	Allergy Information	X		2
[--- PATIENT_VISIT begin			
PV1	Patient Visit	O		3
[PV2]	Patient Visit – Additional Info	X		3
]	--- PATIENT_VISIT end			

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Segment	Meaning	Usage	Card	HL7 Chapter
]	--- PATIENT end			
{	--- ORDER begin			
ORC	Common Order	R	[1..1]	4
[[--- TIMING begin			
TQ1	Timing/Quantity	X		4
[[TQ2]]	Timing/Quantity Order Sequence	X		4
]]	--- TIMING end			
[--- ORDER_DETAIL begin			
RXO	Pharmacy /Treatment Order	X		4
[--- ORDER_DETAIL_SUPPLEMENT begin			
{ NTE }	Notes and Comments (for RXO)	X		2
{ RXR }	Pharmacy/Treatment Route	X		4
[[--- COMPONENTS begin			
RXC	Pharmacy/Treatment Component	X		4
[[NTE]]	Notes and Comments (for each RXC)	X		2
]]	--- COMPONENTS end			
]	--- ORDER_DETAIL_SUPPLEMENT end			
]	--- ORDER_DETAIL end			
[--- ENCODING begin			
RXE	Pharmacy/Treatment Encoded Order	X		4
{	--- TIMING_ENCODED begin			
TQ1	Timing/Quantity	X		4
[[TQ2]]	Timing/Quantity Order Sequence	X		4
}	--- TIMING_ENCODED end			
{ RXR }	Pharmacy/Treatment Route	X		4
[[RXC]]	Pharmacy/Treatment Component	X		4
]	--- ENCODING end			
{	--- GIVE begin			
RXG	Pharmacy/Treatment Give	R	[1..1]	4
{	--- TIMING_GIVE begin			
TQ1	Timing/Quantity	X <u>O</u>	<u>[0..1]</u>	4
[[TQ2]]	Timing/Quantity Order Sequence	X		4
}	--- TIMING_GIVE end			
{ RXR }	Pharmacy/Treatment Route	R	[1..1]	4
[[RXC]]	Pharmacy/Treatment Component	X		4
{	--- OBSERVATION begin			
[OBX]	Observation/Results	R	[1..3]	7
[[NTE]]	Notes and Comments (for OBX)	X		2
}	--- OBSERVATION end			
}	--- GIVE end			

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Segment	Meaning	Usage	Card	HL7 Chapter
}	--- ORDER end			

Add the following section after Section 3.3.4.4.5:

X.X.X.X.X TQ1 Timing Quantity Segment

This segment is an optional segment which allows the IOP to specify the duration of the infusion order. Along with the ordered dose (RXG.18) the infuser can then calculate the rate at which the infusion should be run. Not all IOC's will be able to support duration based infusions even vendors that do support will have limits on the types of infusions which support duration see each vendors implementation guide for further details.

SEQ	LEN	DT	Usage	Card.	TBL#	ITEM #	ELEMENT NAME
1	4	SI	O	[0..1]	0335	01627	Set ID - TQ1
2	20	CQ	X	[0..0]		01628	Quantity
3	540	RPT	X	[0..0]		01629	Repeat Pattern
4	20	TM	X	[0..0]		01630	Explicit Time
5	20	CQ	X	[0..0]		01631	Relative Time and Units
6	20	CQ	X	[0..0]		01632	Service Duration
7	26	TS	X	[0..0]	0485	01633	Start date/time
8	26	TS	X	[0..0]		01634	End date/time
9	250	CWE	X	[0..0]		01635	Priority
10	250	TX	X	[0..0]	0427	01636	Condition text
11	250	TX	X	[0..0]		01637	Text instruction
12	10	ID	X	[0..0]		01638	Conjunction
13	20	CQ	R	[1..3]		01639	Occurrence duration
14	10	NM	X	[0..1]		01640	Total occurrence's

TQ1-1 Set ID

See HL7 v2.6 Section 4.5.4.1 for details. The PCD TF does not further constrain this field.

TQ1-2 Quantity

See HL7 v2.6 Section 4.5.4.2 for details. The PCD TF does not further constrain this field.

TQ1-3 Repeat Pattern

See HL7 v2.6 Section 4.5.4.3 for details. The PCD TF does not further constrain this field.

TQ1-4 Explicit Time

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See HL7 v2.6 Section 4.5.4.4 for details. The PCD TF does not further constrain this field.

TQ1-5 Relative Time and Units

See HL7 v2.6 Section 4.5.4.5 for details. The PCD TF does not further constrain this field.

TQ1-6 Service Duration

See HL7 v2.6 Section 4.5.4.6 for details. The PCD TF does not further constrain this field.

TQ1-7 Start date/time

See HL7 v2.6 Section 4.5.4.7 for details. The PCD TF does not further constrain this field.

TQ1-8 End date/time

See HL7 v2.6 Section 4.5.4.8 for details. The PCD TF does not further constrain this field.

TQ1-9 Priority

See HL7 v2.6 Section 4.5.4.9 for details. The PCD TF does not further constrain this field.

TQ1-10 Condition text

See HL7 v2.6 Section 4.5.4.10 for details. The PCD TF does not further constrain this field.

TQ1-11 Trext instruction

See HL7 v2.6 Section 4.5.4.11 for details. The PCD TF does not further constrain this field.

TQ1-12 Conjunction

See HL7 v2.6 Section 4.5.4.12 for details. The PCD TF does not further constrain this field.

TQ1-13 Occurrence duration

Components: <Quantity (NM)> ^ <Units (CE)>

Subcomponents for Units (CE): <Identifier (ST)> & <Text (ST)> & <Name of Coding System (ID)> & <Alternate Identifier (ST)> & <Alternate Text (ST)> & <Name of Alternate Coding System (ID)>

This field specifies the duration of the infusion, along with the dose or the volume to be administered the rate can be calculated by the infuser.

The only acceptable time values for this field are seconds, minutes, and hours. To specify multiple components of time this field can be repeated two additional times.

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Unit of Time	MDC Code
Hour	2240&MDC_DIM_HR&MDC
Minute	2208&MDC_DIM_MIN&MDC
Second	2176&MDC_DIM_SEC&MDC

Examples:

90 Seconds:

90^2176&MDC_DIM_SEC&MDC

2 Hours 45 Minutes:

2^2240&MDC_DIM_HR&MDC~45^2208&MDC_DIM_MIN&MDC

TQ1-14 Total occurrence's

See HL7 v2.6 Section 4.5.4.14 for details. The PCD TF does not further constrain this field.