



# ***ISO MME***

## ***Proposal for Q-Dummy Channel Coding***

### ***V1.5.1***

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# Version History

(1)

- V1.0:
  - first official version
  - coding proposals for Q1 ½, Q3 and Q3s
  - information on missing instrumentation of Q0
- V1.1:
  - CHST DS coding proposed (not THSP), AC still open (CHST or THSP)
  - TRRI AC coding proposed (not RIBS or CHRI)
- V1.2:
  - changed HEAD AA to HEAD AV
  - added codes for Q6
- V1.2.1 October 2009:
  - cleaned up coding
  - added codes for Q0 and Q1
  - chest deflection with LE/RI at FL1
  - Thoracic Spine acceleration with THSP for all dummies proposed
  - IRTACC measurement (VO) for Q3 chest deflection also string pot available) (Q1 ½ without IRTACC; Q6 always IRTACC!)
  - added version history

### → V1.3 July 2011:

- Thoracic Spine acceleration with THSP for all dummies introduced
- IRTACC measurement (VO) for Q3 chest deflection also string pot available)  
(Q1 ½ without IRTACC; Q6 always IRTACC)
- Chest Deflection for frontal impact and side impact coded with ML = CHST
- Added NECKUP FO/MO for Q0
- Fixed FL3 codes for Q1 at Thoracic Rib Cage Abdomen and Pelvis region
- Added coding for optional Thorax/Ribcage accelerometers ACX/ACY in Q1, Q1 ½,...

### → V1.4 December 2011:

- Added Coding Proposal for Q10 (QA)
- Overworked several codings (outcome of discussion in green)



# Version History

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(3)

→ V1.5.1 January 2012:

- Q3, Q4 and Q6 with ABDO[LE/RI] PR measurement based on information from CASPER-Project 01/2012



## Fine Location 3 Coding for Q-Dummies

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- Q0= TNO Q Newborn
- Q1= TNO Q1 year old Dummy (former Q10)
- Q2= TNO Q1 1/2 year old Dummy
- Q3= TNO Q3 year old Dummy  
Q4= TNO Q3s year old Dummy
- Q6= TNO Q6 year old Dummy
- QA= TNO Q10 year old Dummy (Hex code for 10 is A)



# Coding Proposal for Q-Dummy Measurement

**Q0**

## Head

??HEAD0000Q0AC[X/Y/Z]A

## Neck

??NECKUP00Q0FO[X/Y/Z]A

??NECKUP00Q0MO[X/Y/Z]B

(no lower neck)

## Thoracic Spine

??THSP0000Q0AC[X/Y/Z]C

## Pelvis

??PELV0000Q0AC[X/Y/Z]?

Not available for Q0 are  
measurements for:

Head AV

NECK LO

CHST DS

LUSP

# Coding Proposal for Q-Dummy Measurement

Q 1

## Head

??HEAD0000Q1AC[X/Y/Z]A

??HEAD0000Q1AV[X/Y/Z]?

## Neck

??NECKUP00Q1FO[X/Y/Z]A

??NECKUP00Q1MO[X/Y/Z]B

(no lower neck)

## Thoracic Spine

??THSP0000Q1AC[X/Y/Z]C

??THSP??00Q1AC[X/Y]C

(no fixed position, taped)

## Chest

frontal impact

??CHST0000Q1DSXC

??CHSTLE00Q1DSYC (left side impact)

??CHSTRI00Q1DSYC (right side impact)

## Thoracic Ribcage

??TRRI??00Q1AC[X/Y]A

(for relative acceleration and  
alternative deflection calculation)

(no fixed position, taped)

## Abdomen (Lower Lumbar Spine)

??LUSP0000Q1FO[X/Y/Z]?

??LUSP0000Q1MO[X/Y/Z]?

## Pelvis

??PELV0000Q1AC[X/Y/Z]?



# Coding Proposal for Q-Dummy Measurement

Q 1 1/2

## Head

??HEAD0000Q2AC[X/Y/Z]A

??HEAD0000Q2AV[X/Y/Z]?

## Neck

??NECKUP00Q2FO[X/Y/Z]A

??NECKUP00Q2MO[X/Y/Z]B

(no lower neck)

## Thoracic Spine

??THSP0000Q2AC[X/Y/Z]C

??THSP??00Q2AC[X/Y]C

(no fixed position, taped)

## Chest

??CHST0000Q2DSXC

??CHSTLE00Q2DSYC (left side impact)

??CHSTRI00Q2DSYC (right side impact)

## Thoracic Ribcage

??TRRI??00Q2AC[X/Y]A

(no fixed position, taped)

## Abdomen (Lower Lumbar Spine)

??LUSP0000Q2FO[X/Y/Z]?

??LUSP0000Q2MO[X/Y/Z]?

## Pelvis

??PELV0000Q2AC[X/Y/Z]?



# Coding Proposal for Q-Dummy Measurement Q3,Q3s

## Head

??HEAD0000 [Q3/Q4] AC [X/Y/Z] A  
??HEAD0000 [Q3/Q4] AV [X/Y/Z] ?

## Neck

??NECKUP00 [Q3/Q4] FO [X/Y/Z] A  
??NECKUP00 [Q3/Q4] MO [X/Y/Z] B  
??NECKLO00 [Q3/Q4] FO [X/Y/Z] A  
??NECKLO00 [Q3/Q4] MO [X/Y/Z] B

## Shoulder

??SHLD [LE/RI] 0000 [Q4] DSY?  
(Q3s lateral, string pot)

## Thoracic Spine

??THSP0000 [Q3/Q4] AC [X/Y/Z] C  
??THSP ??00 [Q3/Q4] AC [X/Y] C  
(no fixed position, taped)  
??SPIN0100Q4ACYC

## Chest

??CHST0000Q3DSXC (IRTRACC)  
??CHST0000Q3VOX? (frontal)  
??CHST [LE/RI] 00Q4DSYC  
??CHST [LE/RI] 00Q4VOY?  
(Q3s lateral, IRTRACC)

## Thoracic Ribcage (optional)

??TRRI ??00 [Q3/Q4] AC [X/Y] A  
(no fixed position, taped)

## Abdomen (Lower Lumbar Spine)

??LUSP0000 [Q3/Q4] FO [X/Y/Z] ?  
??LUSP0000 [Q3/Q4] MO [X/Y/Z] ?  
??ABDO [LE/RI] 00 [Q3/Q4] PR0?  
(according to CASPER 01/2012)

## Pelvis

??PELV0000 [Q3/Q4] AC [X/Y/Z] ?  
??PUBC0000Q4FOYB  
(Q3s lateral)

# Coding Proposal for Q-Dummy Measurement

Q6

## Head

??HEAD0000Q6AC[X/Y/Z]A

??HEAD0000Q6AV[X/Y/Z]?

## Neck

??NECKUP00Q6FO[X/Y/Z]A

??NECKUP00Q6MO[X/Y/Z]B

??NECKLO00Q6FO[X/Y/Z]A

??NECKLO00Q6MO[X/Y/Z]B

## Thoracic Spine

??THSP0000Q6AC[X/Y/Z]C

??THSP??00Q6AC[X/Y]C

(no fixed position, taped)

## Chest

??CHST0000Q6DSXC (always ISTRACC)

??CHST0000Q6VOXC

??CHST[LE/RI]00Q6DSYC (left side impact)

??CHST[LE/RI]00Q6VOYC (right side impact)

## Thoracic Ribcage (optional)

??TRRI??00Q6AC[X/Y]A

(no fixed position, taped)

## Abdomen (Lower Lumbar Spine)

??LUSP0000Q6FO[X/Y/Z]?

??LUSP0000Q6MO[X/Y/Z]?

??ABDO[LE/RI]00Q6PR0?

(according to CASPER 01/2012)

## Pelvis

??PELV0000Q6AC[X/Y/Z]?

## Head

??HEAD0000QAAC[X/Y/Z]A  
??HEAD0000QAAV[X/Y/Z]?  
??HEADPR00QAAN[X/Y]? (static)

## Neck

??NECKUP00QAFO[X/Y/Z]A  
??NECKUP00QAMO[X/Y/Z]B  
??NECKLO00QAFO[X/Y/Z]A  
??NECKLO00QAMO[X/Y/Z]B

## Thoracic Spine

??THSP0400QAAC[X/Y/Z]C  
??THSP0400QAAV[X/Y/Z]?  
??THSPPR00QAAN[X/Y]? (static)  
??THSP1200QAAC[X/Y/Z]C  
??THSP1200QAAV[X/Y/Z]?

## Thoracic Ribcage (optional)

??TRRIUP00QAAC[X/Y]? (X or Y)  
??TRRILO00QAAC[X/Y]? (X or Y)

## Chest

??CHSTUP00QAVO0?  
??CHSTUP00QADS0C  
??CHSTUP00QAANZ?  
??CHSTUP00QADSXC  
??CHSTUP00QADSYC  
  
??CHSTLO00QAVOX?  
??CHSTLO00QADS0C  
??CHSTLO00QAANZ?  
??CHSTLO00QADSXC  
??CHSTLO00QADSYC

### Abdomen (Lower Lumbar Spine)

??LUSP0000QAFO[X/Y/Z]?

??LUSP0000QAMO[X/Y/Z]?

### Legs

??FEMUUPLEQAFO[X/Y/Z]B

??FEMUUPLEQAMO[X/Y/Z]B

### Pelvis

??PELV0000QAAC[X/Y/Z]?

??PELV0000QAAV[X/Y/Z]?

??PELVPR00QAAN[X/Y]? (static)

??SACRLE00QAFO[X/Y/Z]?

??SACRLE00QAMO[X/Y/Z]?

??SACRRI00QAFO[X/Y/Z]?

??SACRRI00QAMO[X/Y/Z]?

??PUBC0000QAFOY?