

Road vehicles - Multimedia data exchange format for impact tests

Véhicules routiers — Format d'échange de données multimédia pour les essais de choc

Related electronic document C

Figures

— Version 1.5 —

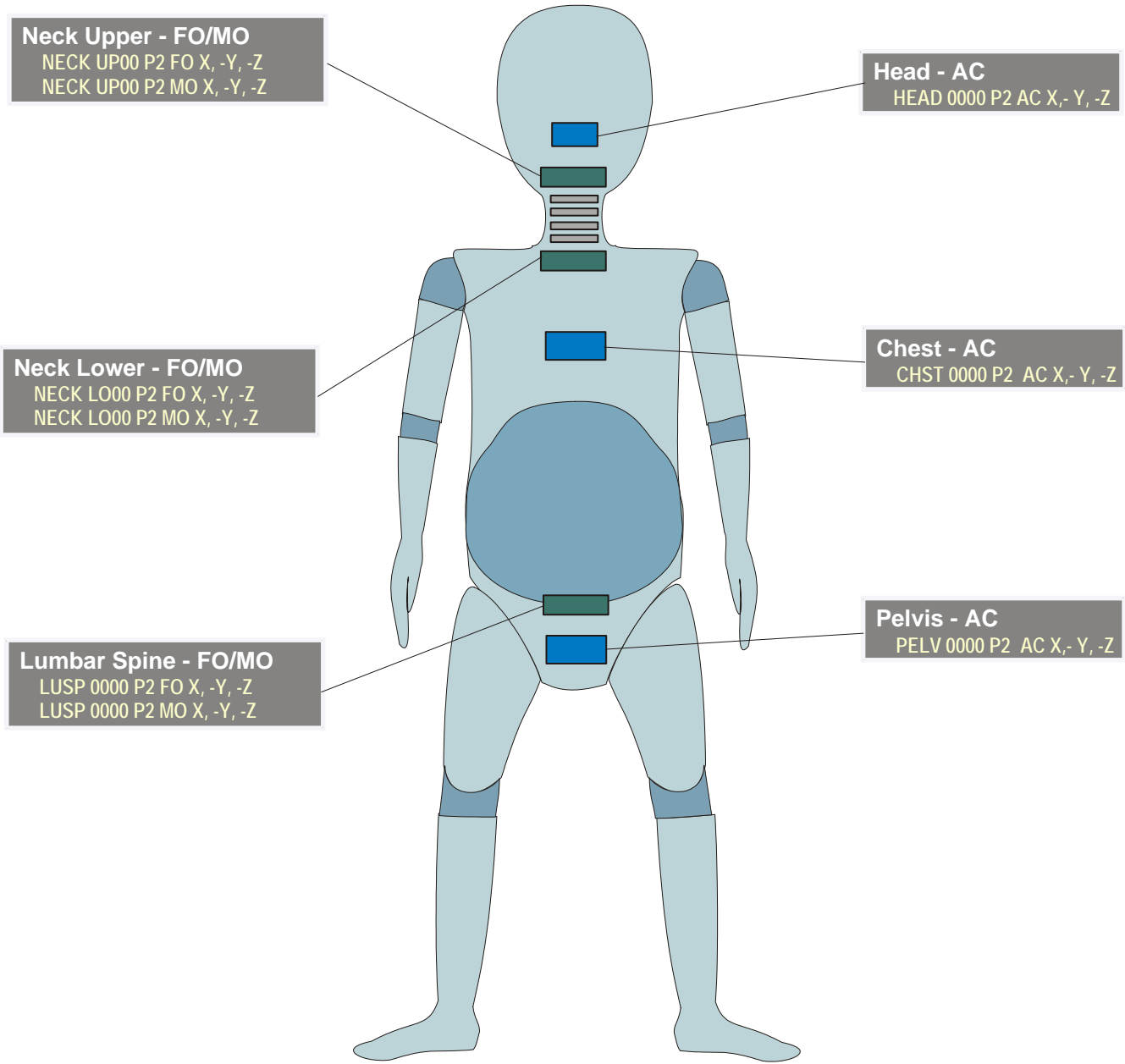
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ISO	Content	Revision	Remarks
P2	TNO P 1½ year old	1.1	
P3	TNO P 3 year old	1.1	
Y2	CRABI 12 month old	1.5	
Y6	H III - 3 year old	1.5	NPRM Level "A"
Y7	H III - 6 year old	1.1	NPRM Level "I"
Q0	Q0	1.5	
Q1	Q1	1.5	
Q2	Q1,5	1.5	
Q3	Q3	1.5	
Q4	Q3 Side impact	1.5	
Q6	Q6	1.5	
HF	Hybrid III 5% Female	1.2	NPRM Level "H"
H3	Hybrid III 50% Male	1.2	
HM	Hybrid III 95% Male	1.2	
BR	Bio-RID	1.5	
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E1	Euro SID I	1.2	
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VE	Vehicle	1.2	
INT	Interior	1.5	
AIR	Airbag	1.4	
PE	Pedestrian Legform Impactor	1.5	

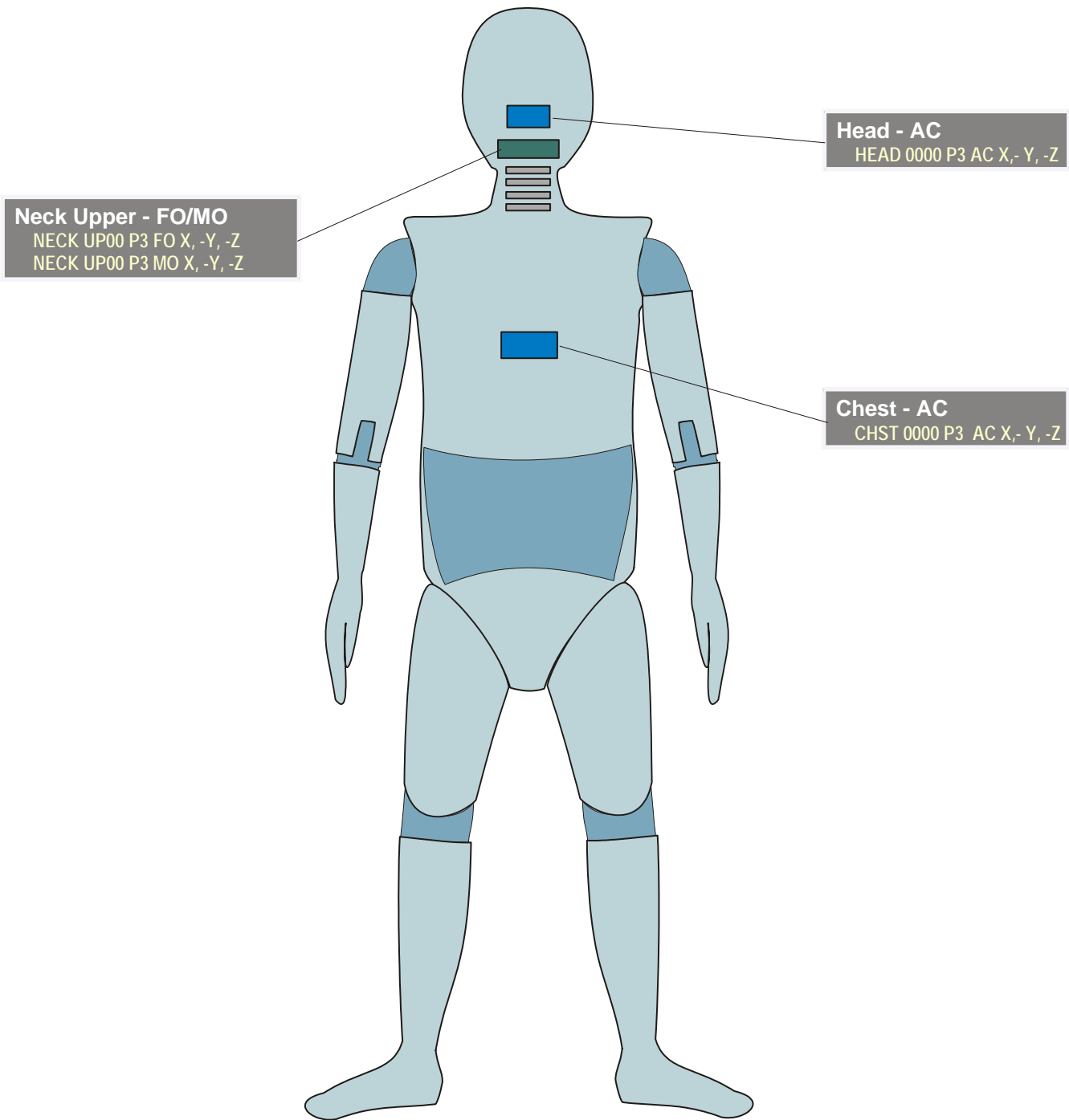
P2 TNO P 1½ year old

Valid since Version 1.1



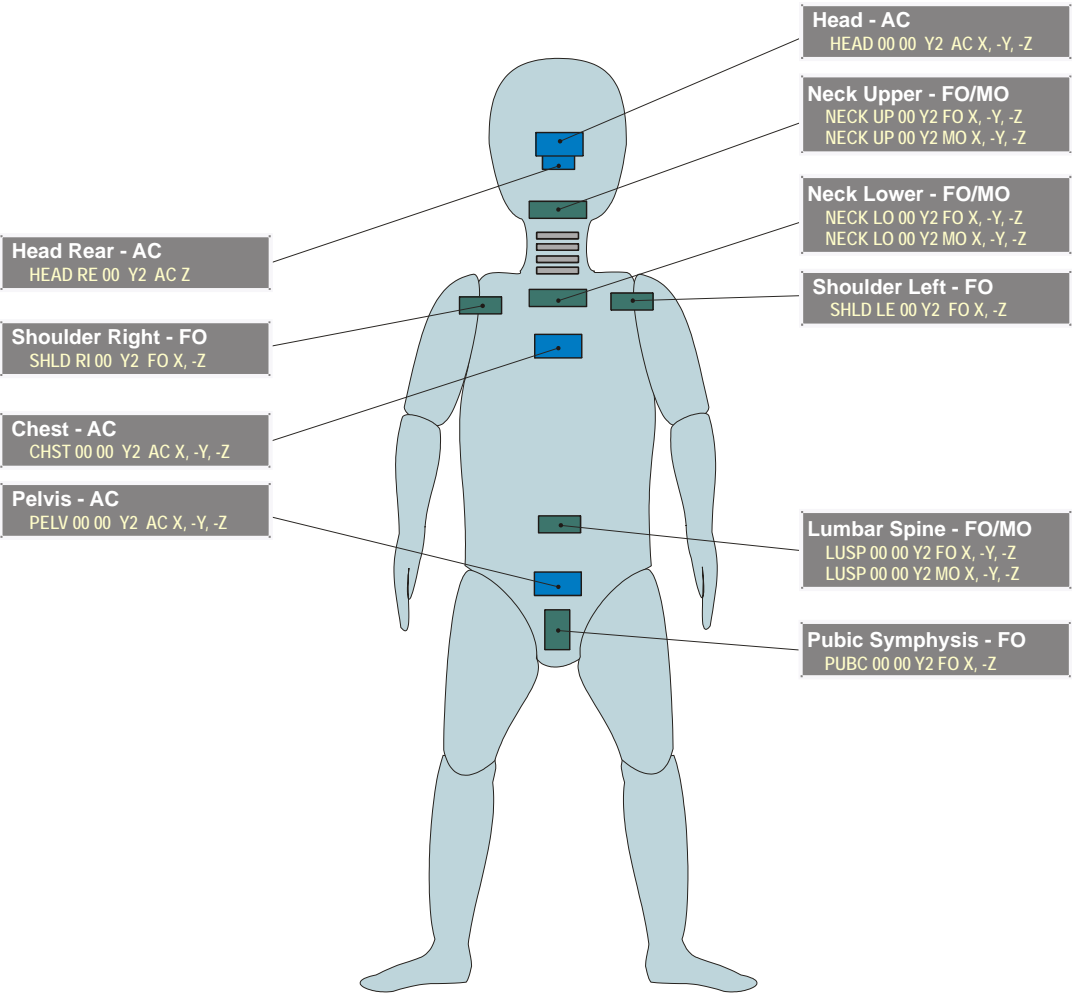
P2_1_11.wmf

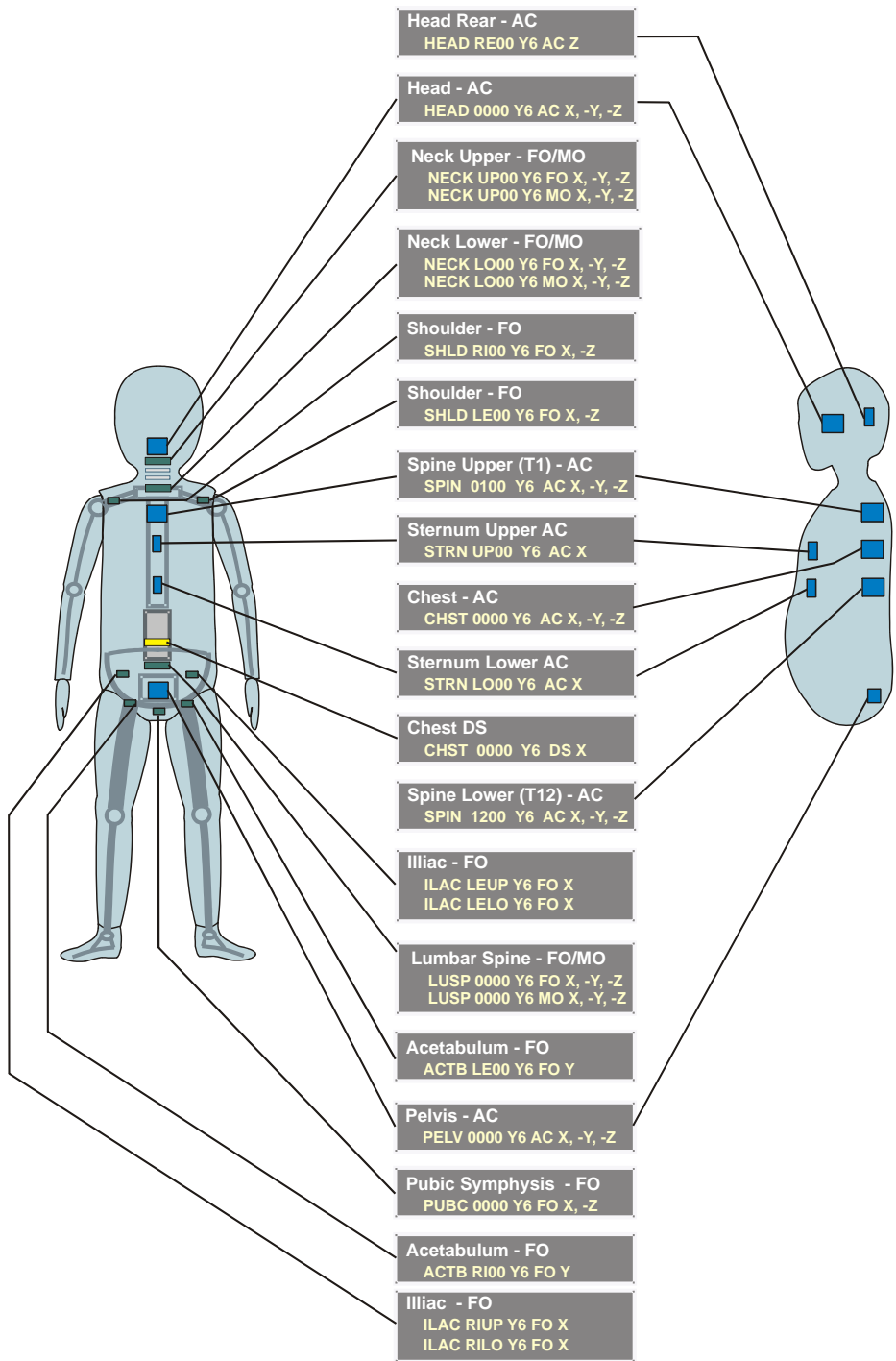
->P2 <- 1 of 1



Y2 CRABI 12 month old

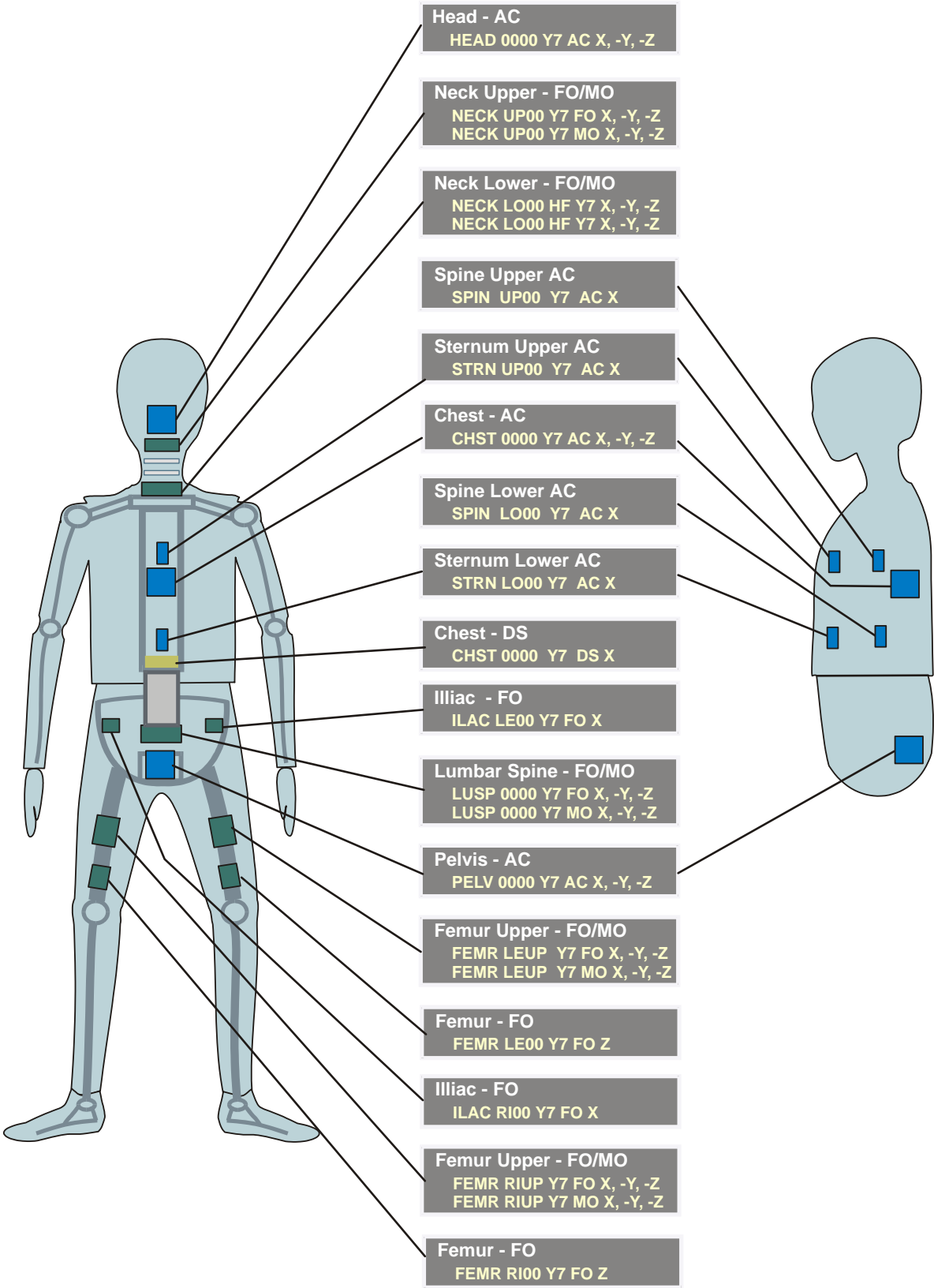
Valid since Version 1.5





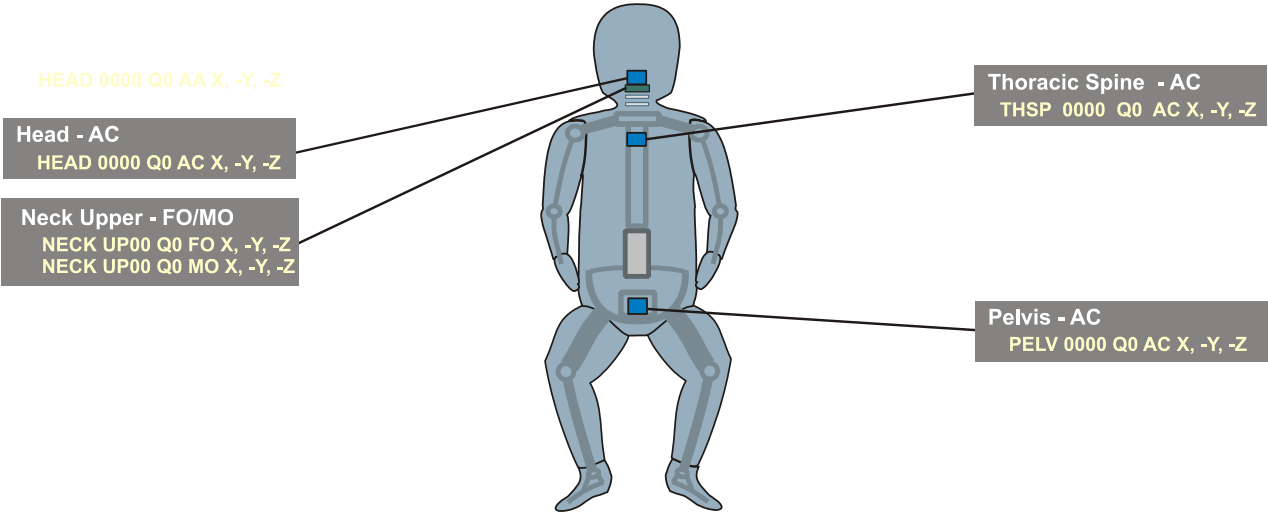
Y7 H III - 6 year old

Valid since Version 1.1
NPRM Level "I"



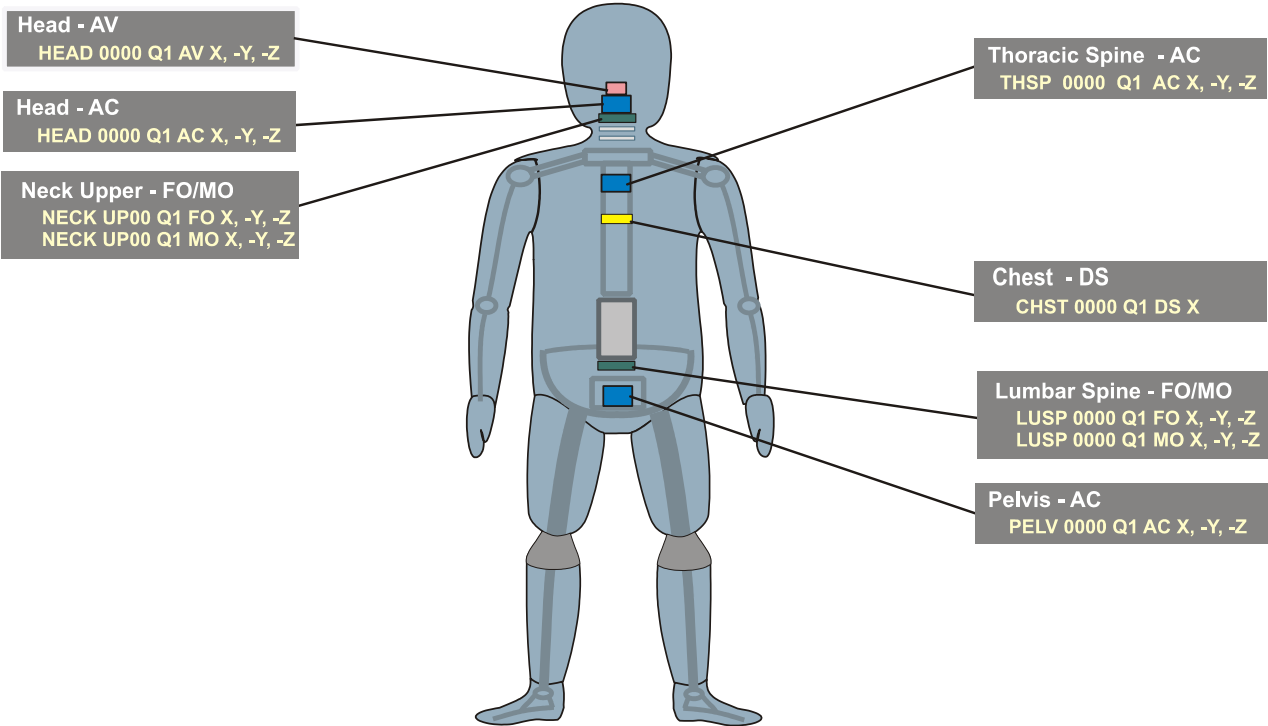
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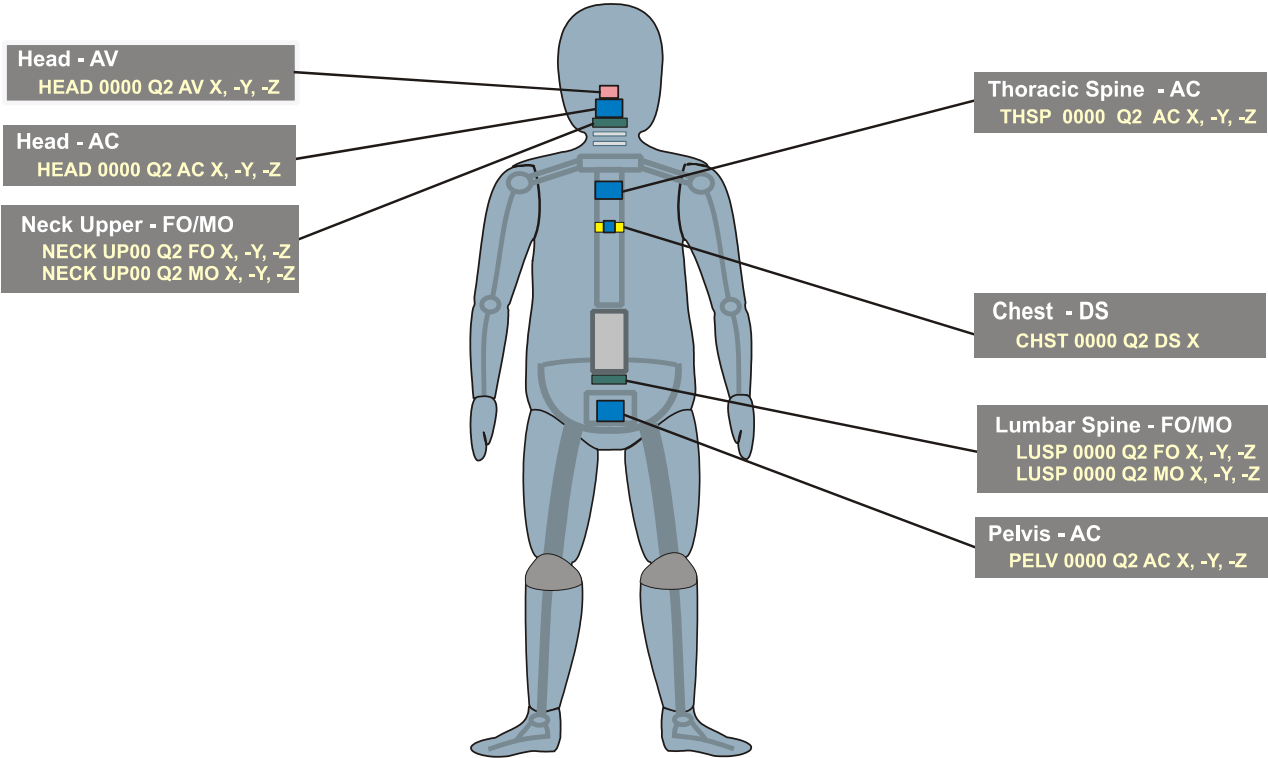
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Q1 Q1

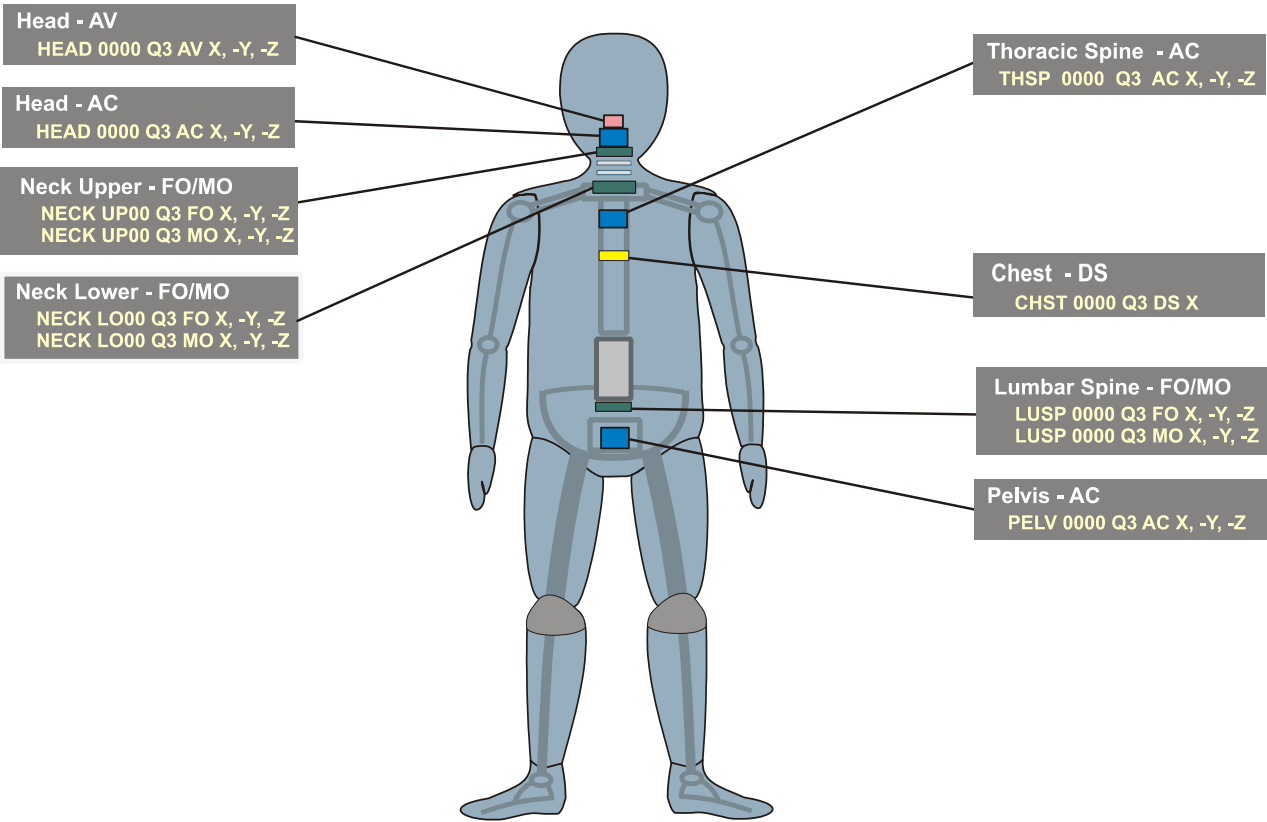
Valid since Version 1.5

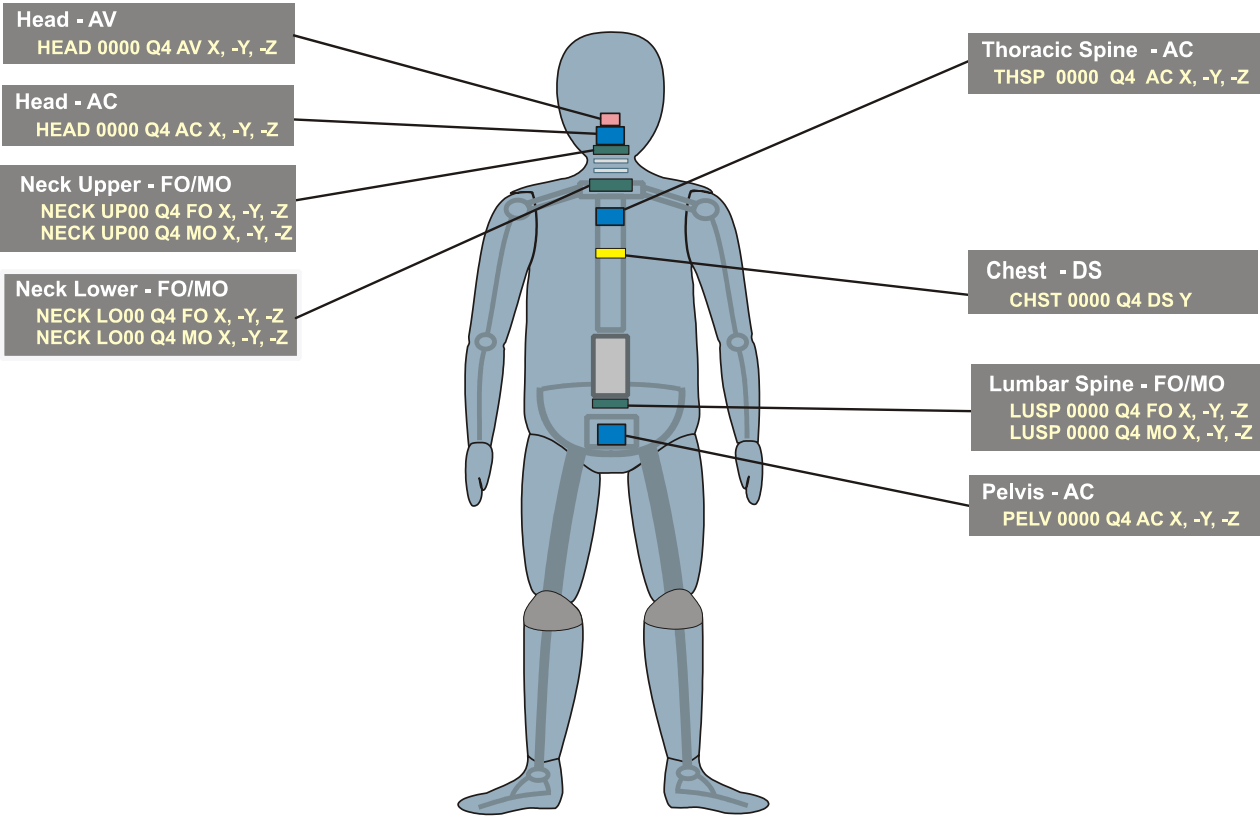




Q3 Q3

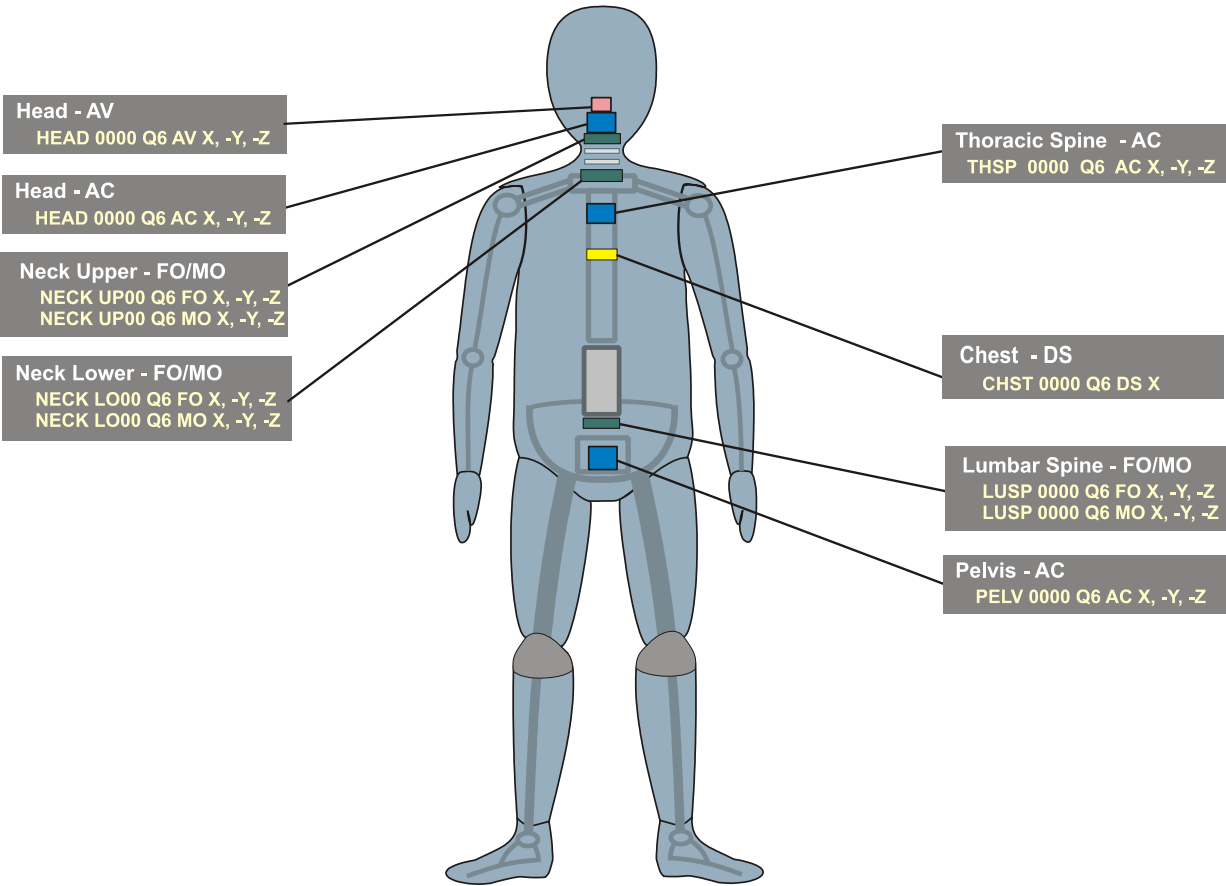
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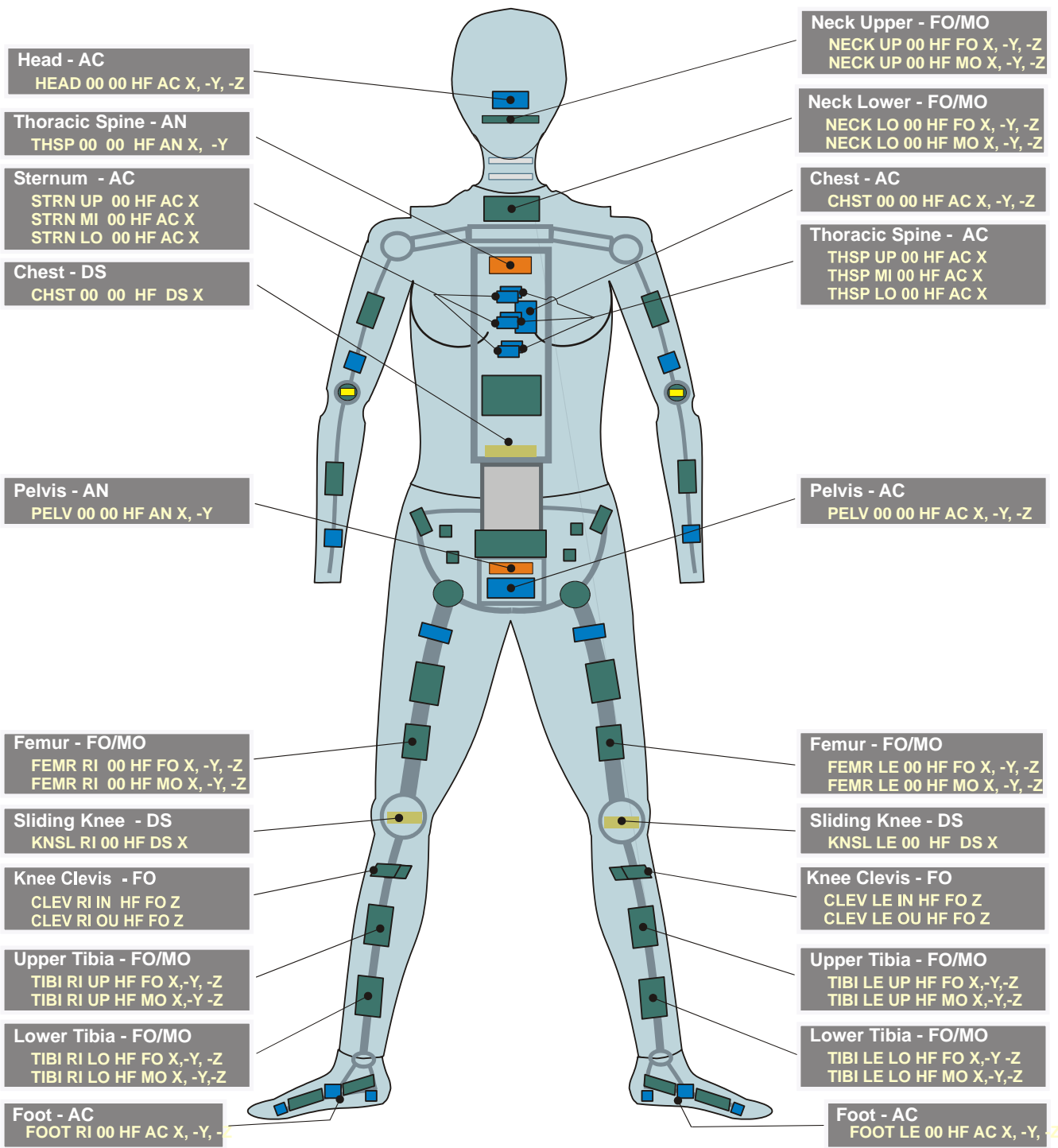




Q6 Q6

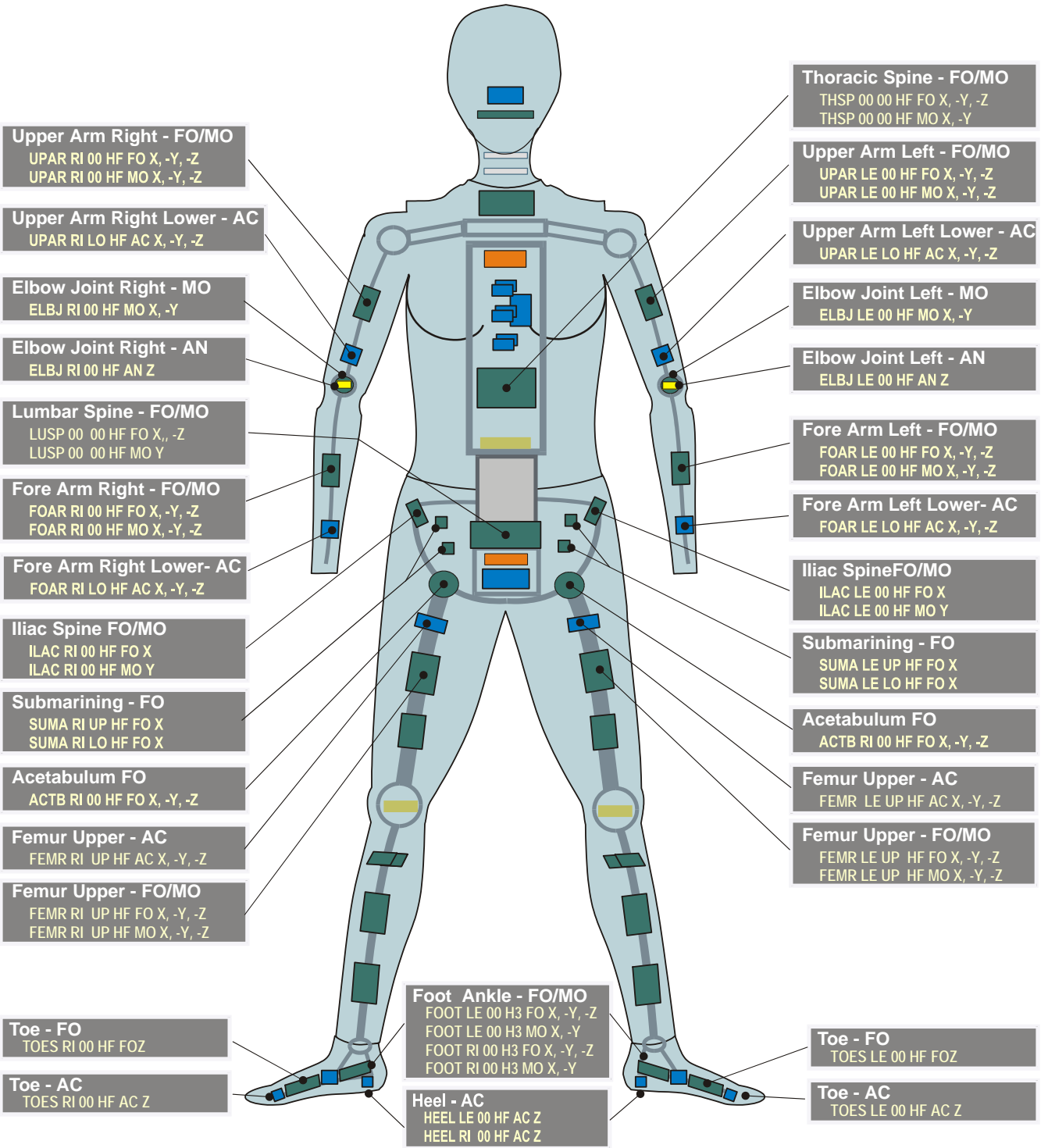
Valid since Version 1.5





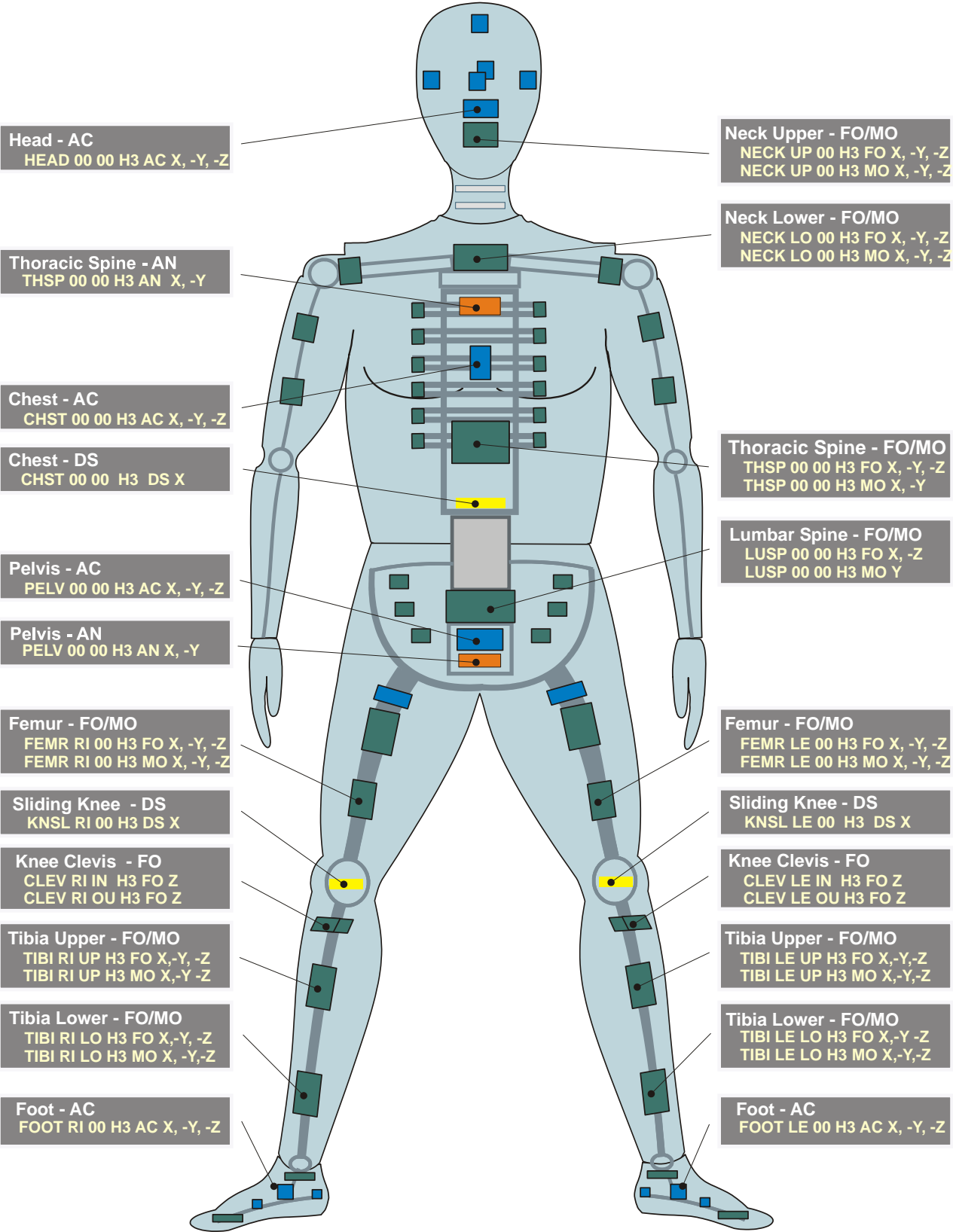
HF Hybrid III 5% Female

Valid since Version 1.1
NPRM Level "H"



HF_2_11.WMF

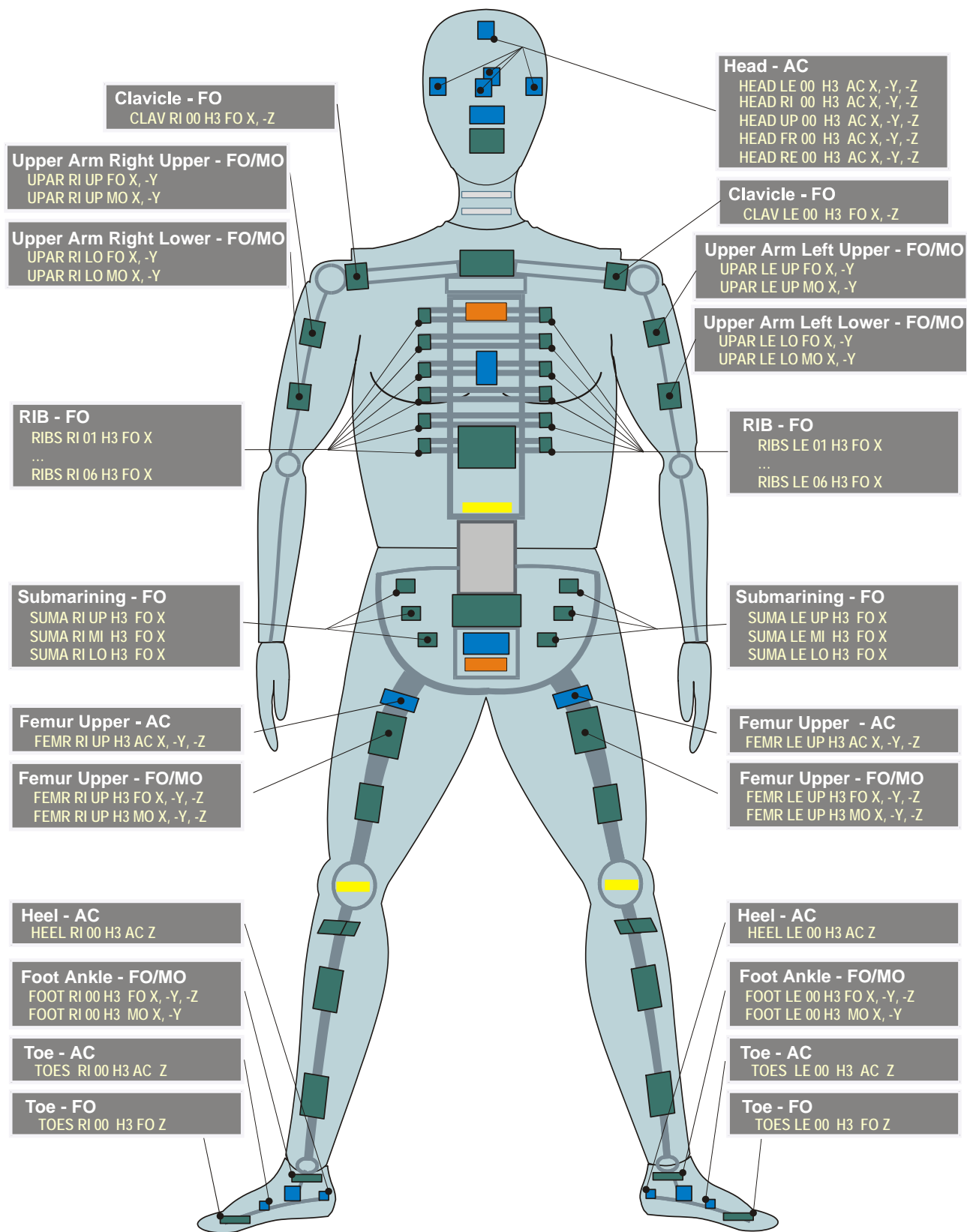
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H3 Hybrid III 50% Male

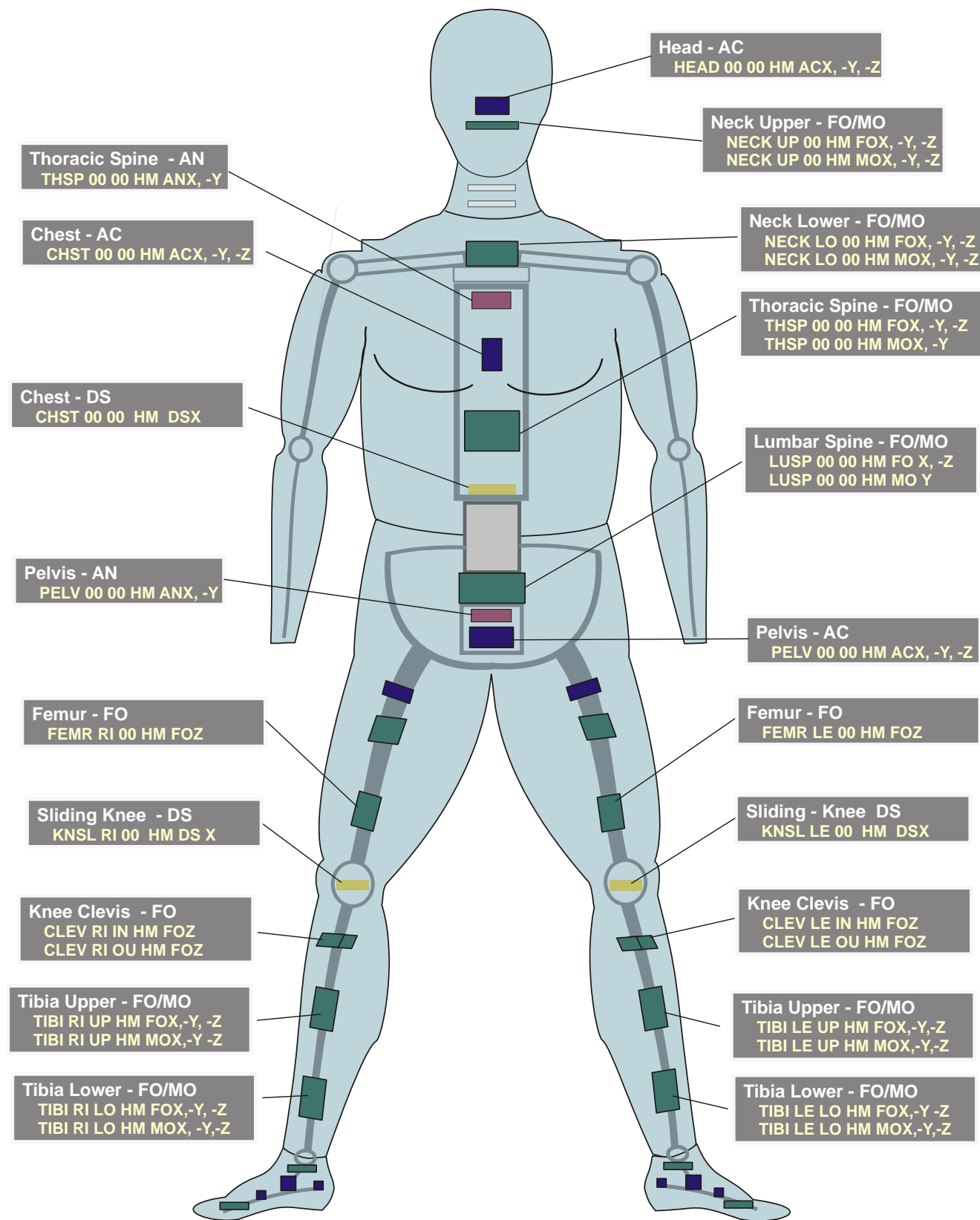
Valid since Version

1.1



H3_2_11.WMF

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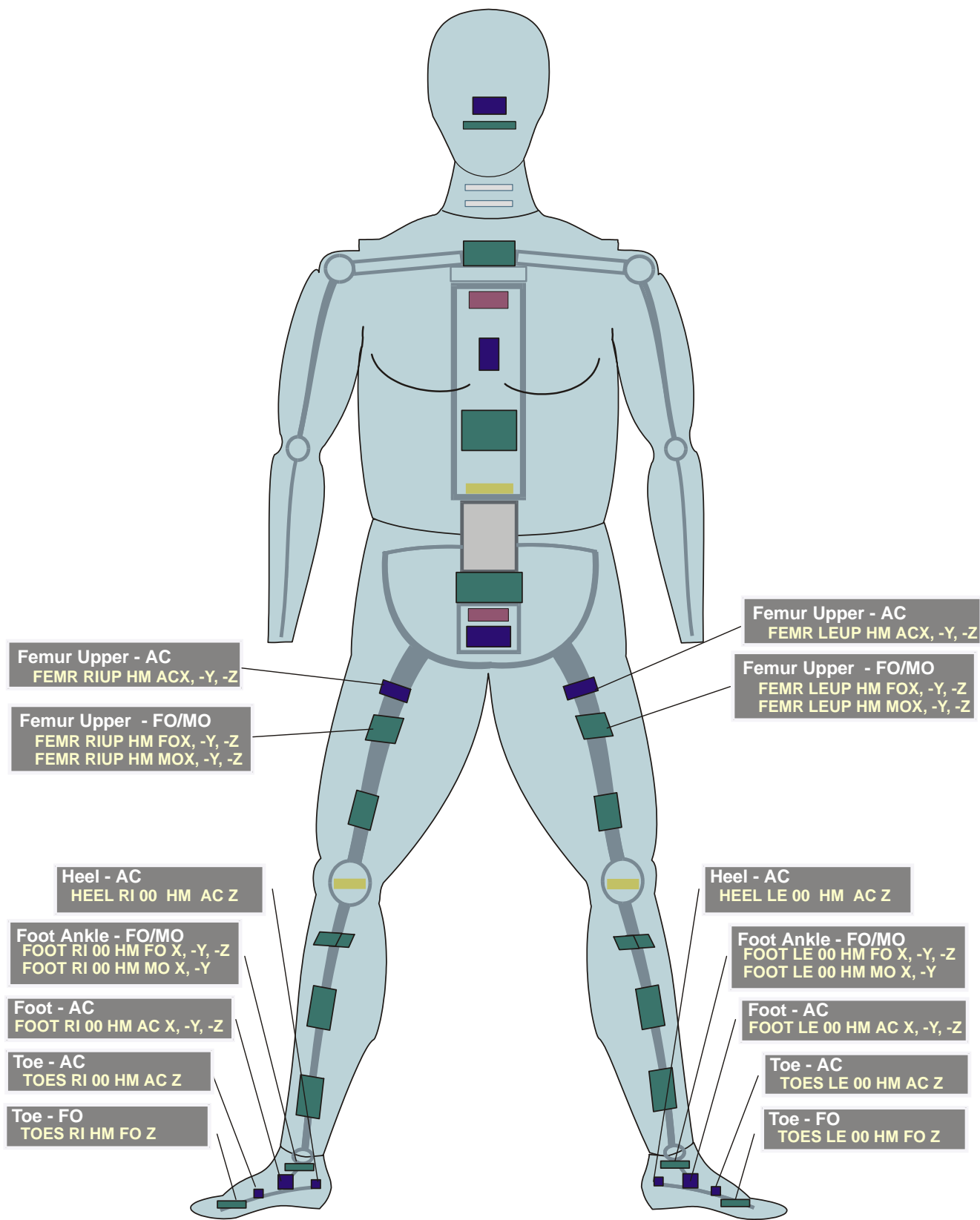


HM_1_12 .wmf

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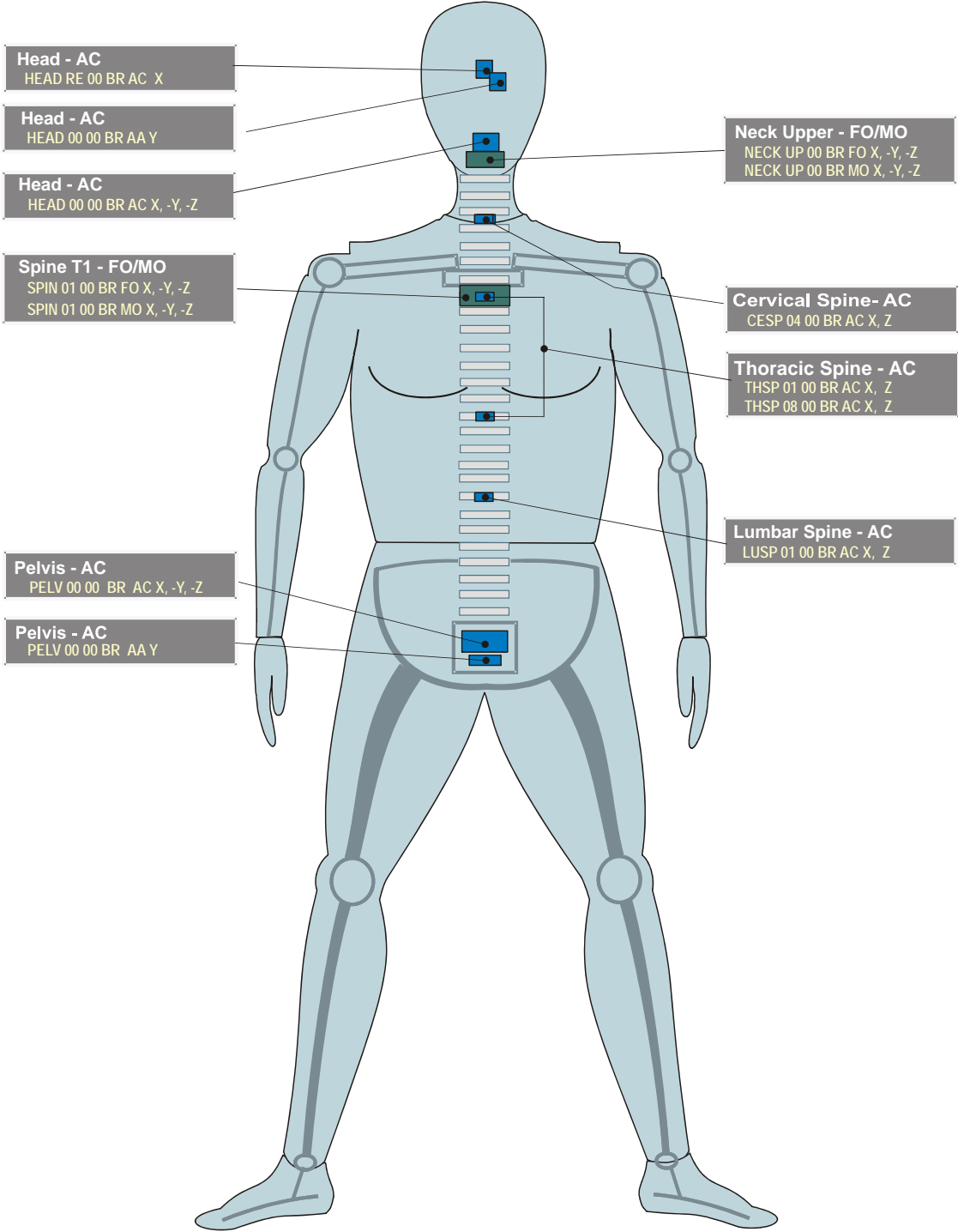
HM Hybrid III 95% Male

Valid since Version 1.1



HM_2_11.WMF

->HM<- 2 of 2

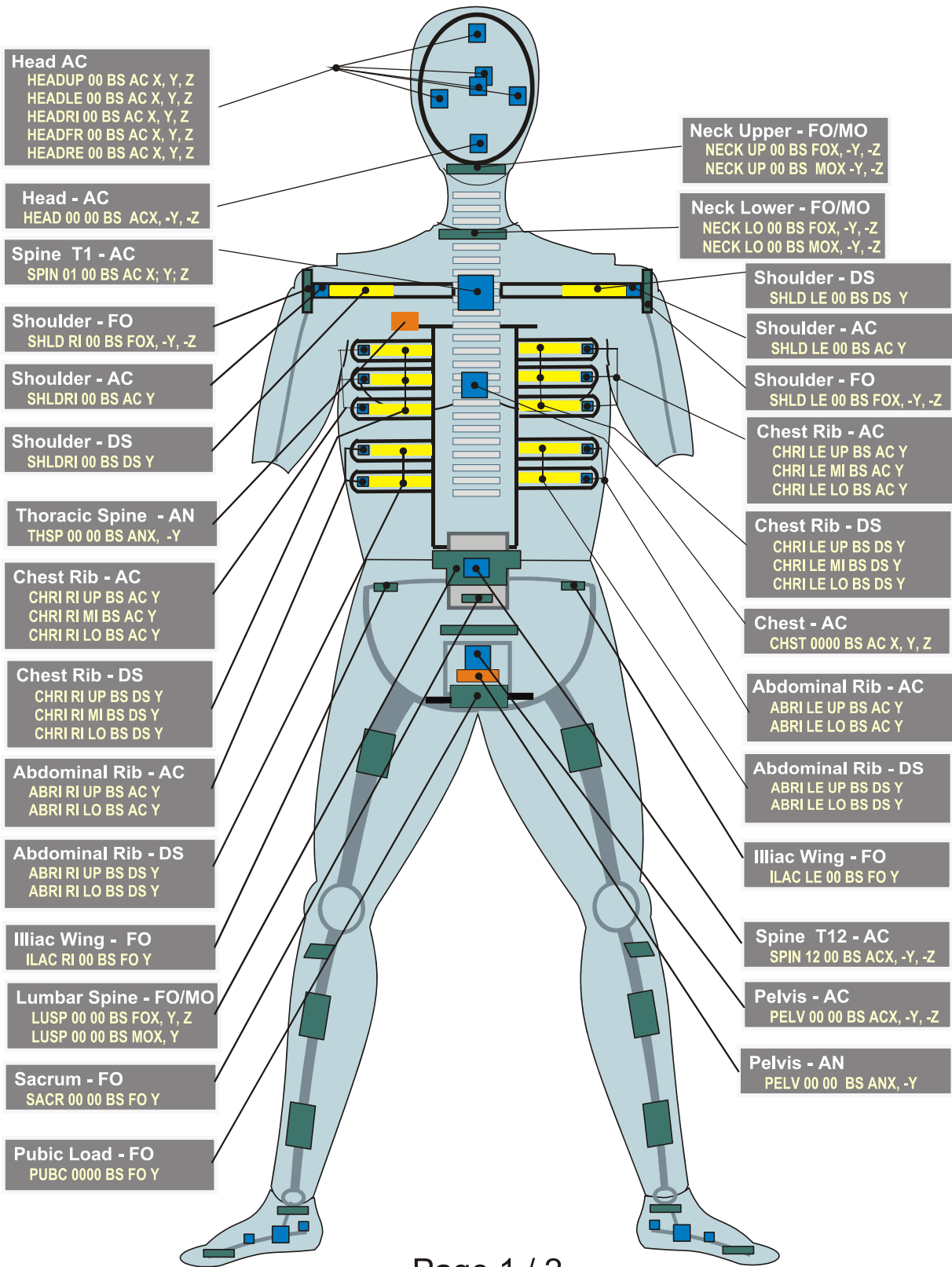


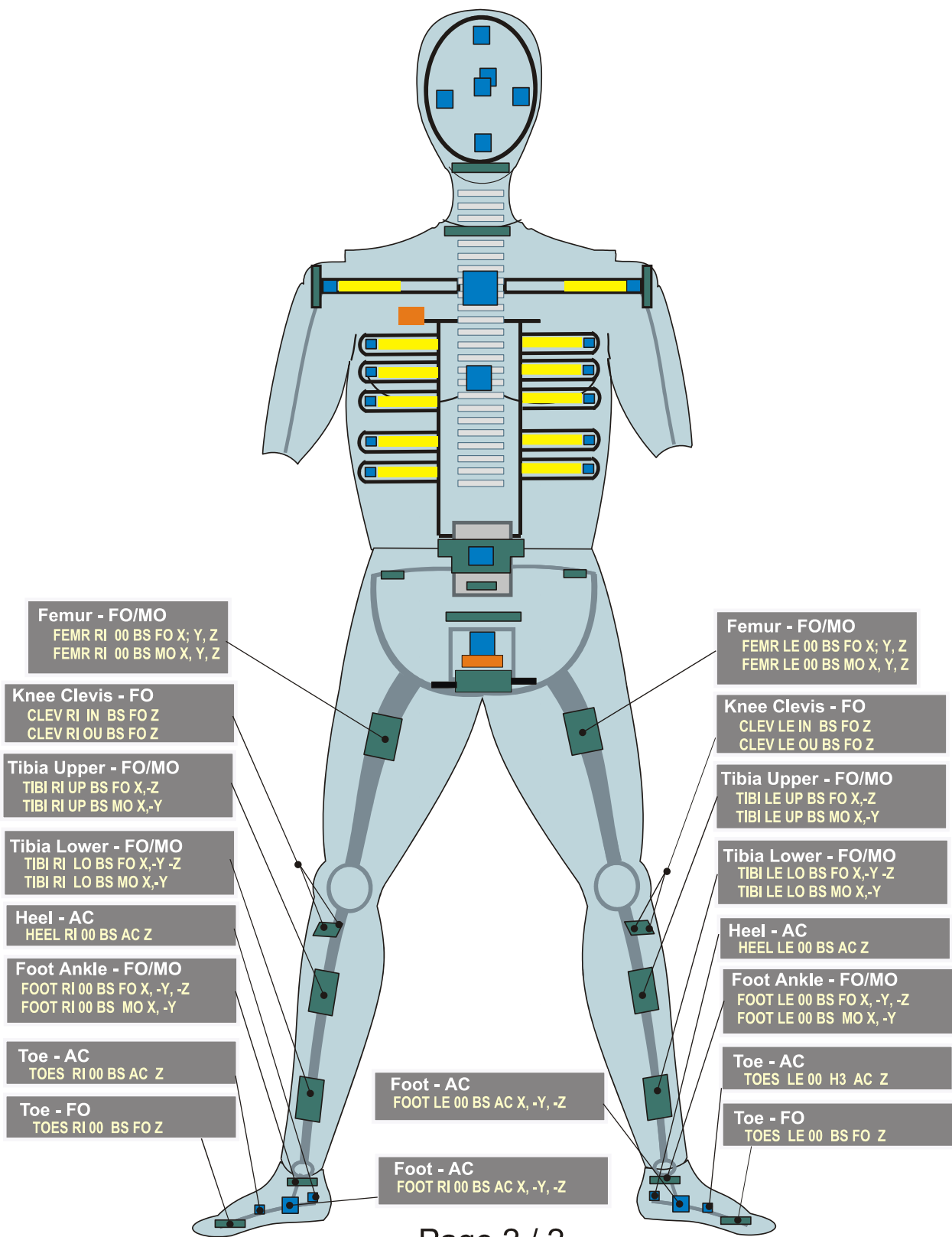
BS

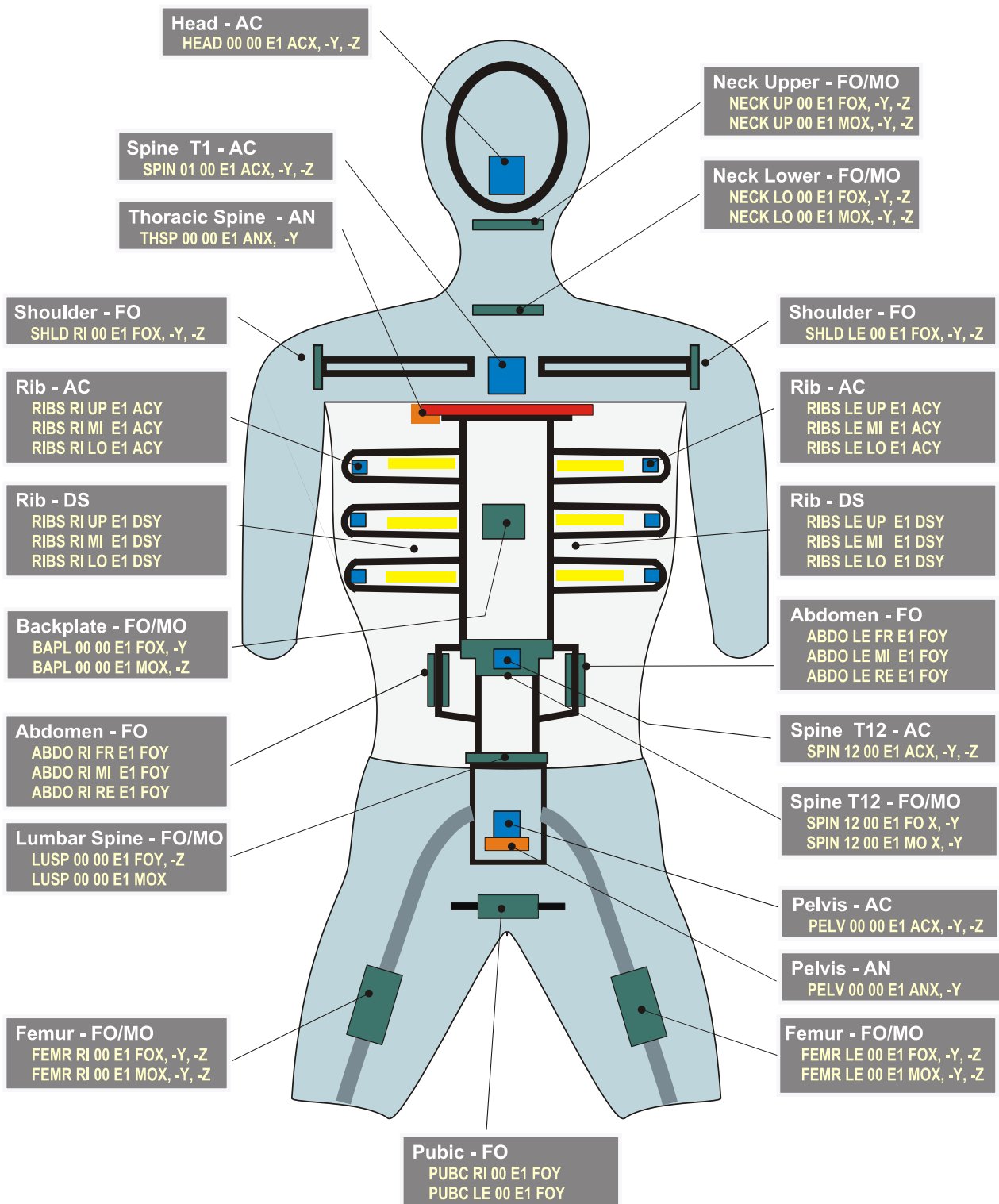
Bio-SID

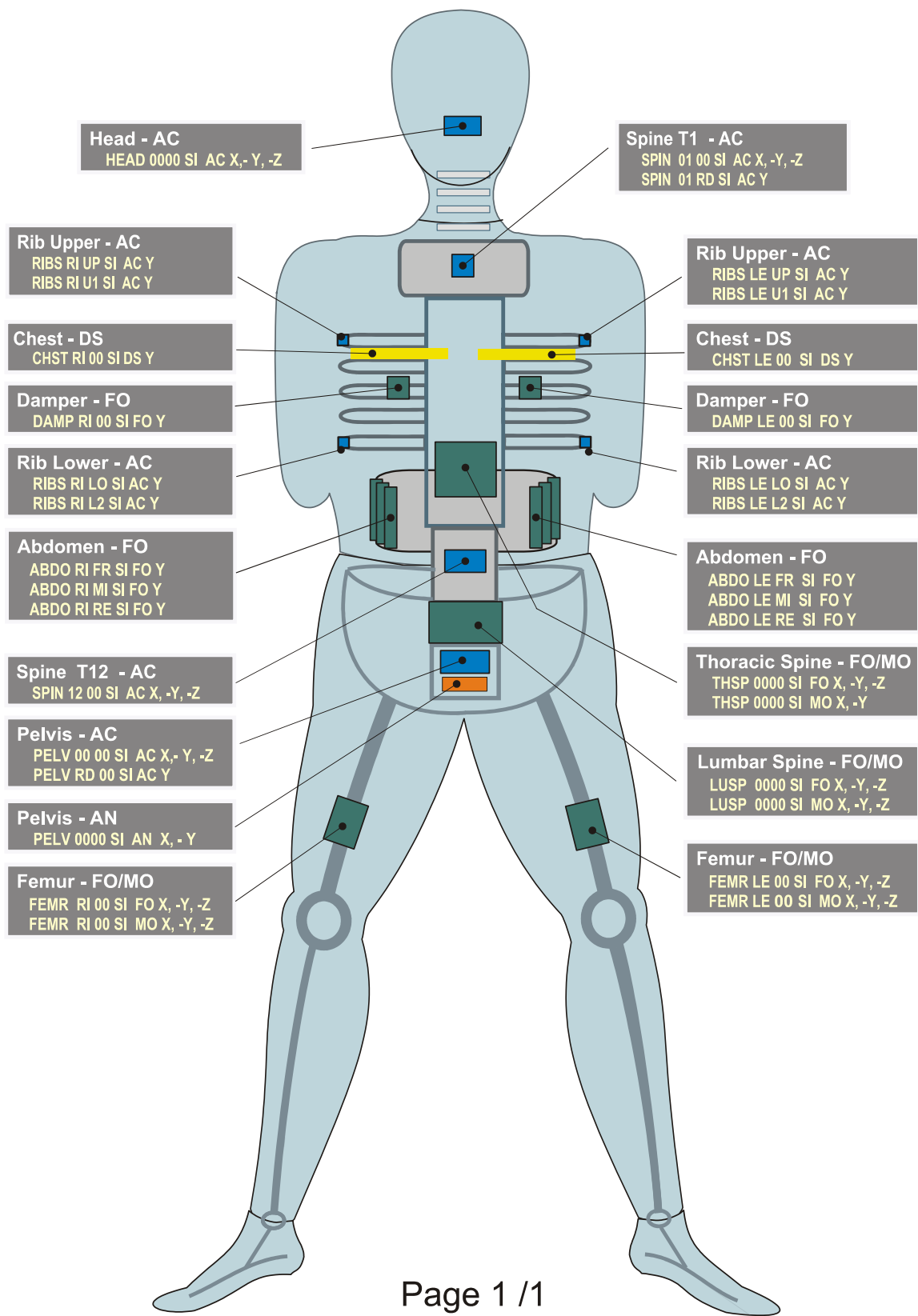
Valid since Version

1.3







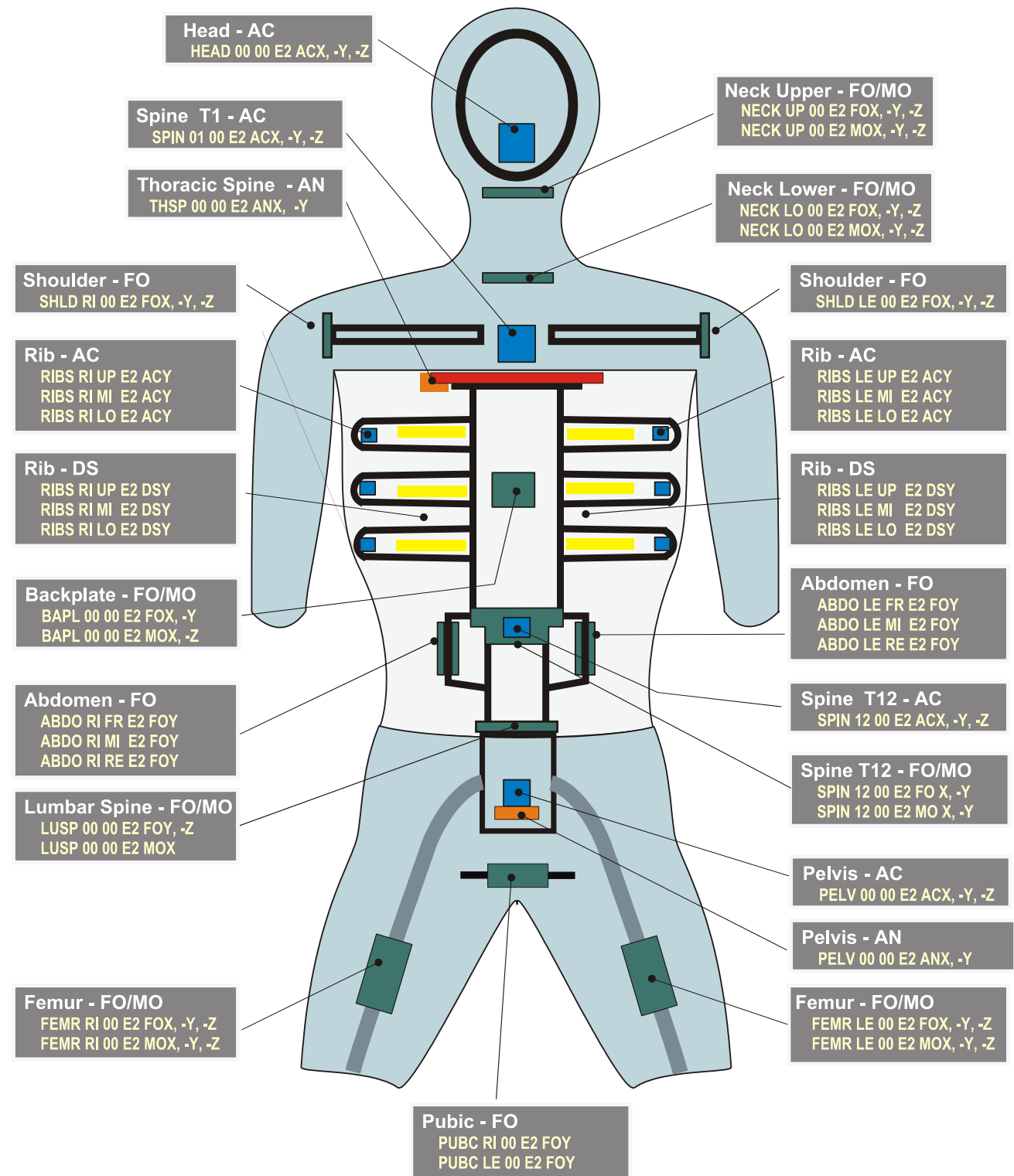


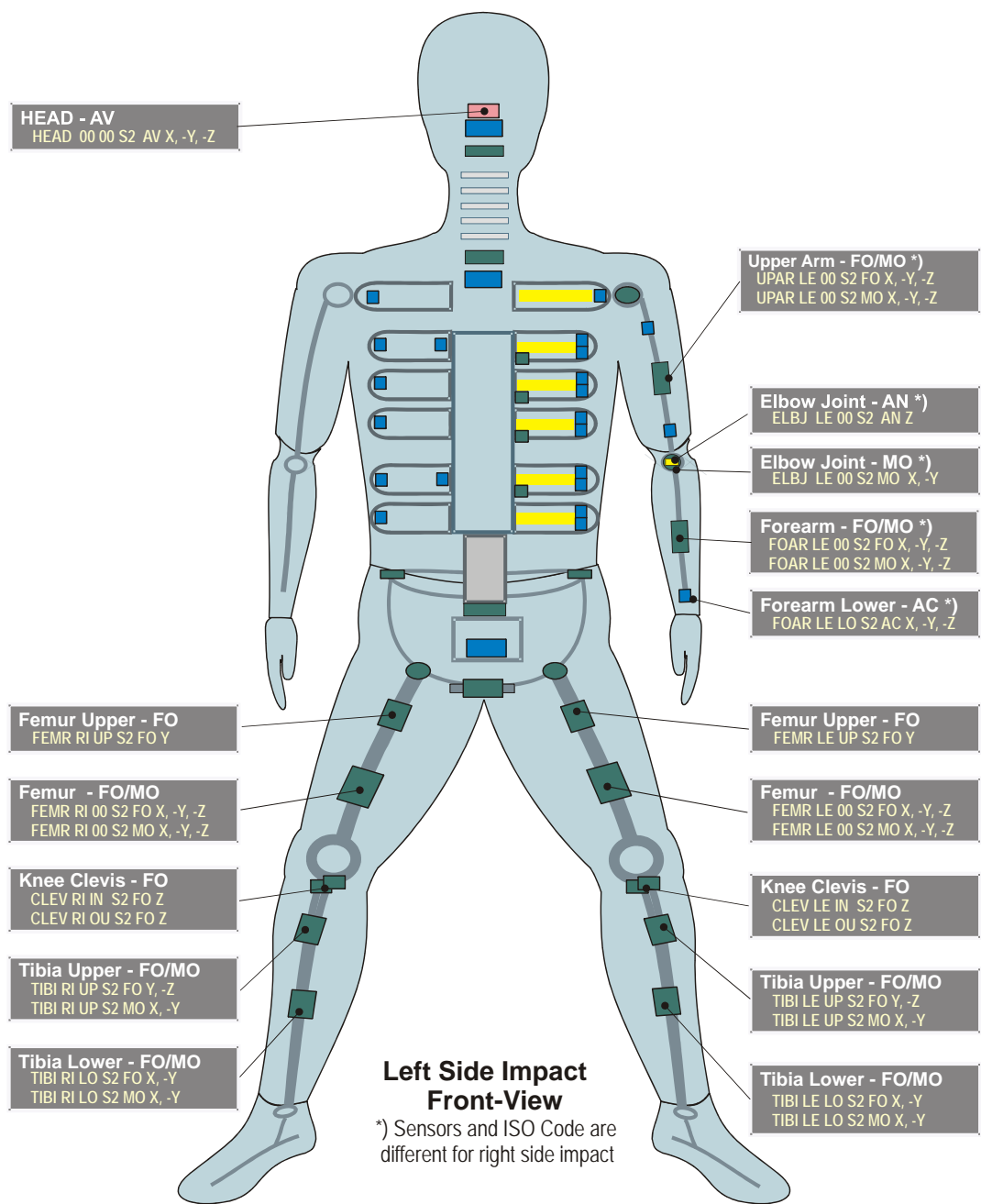
E2

ES 2

Valid since Version

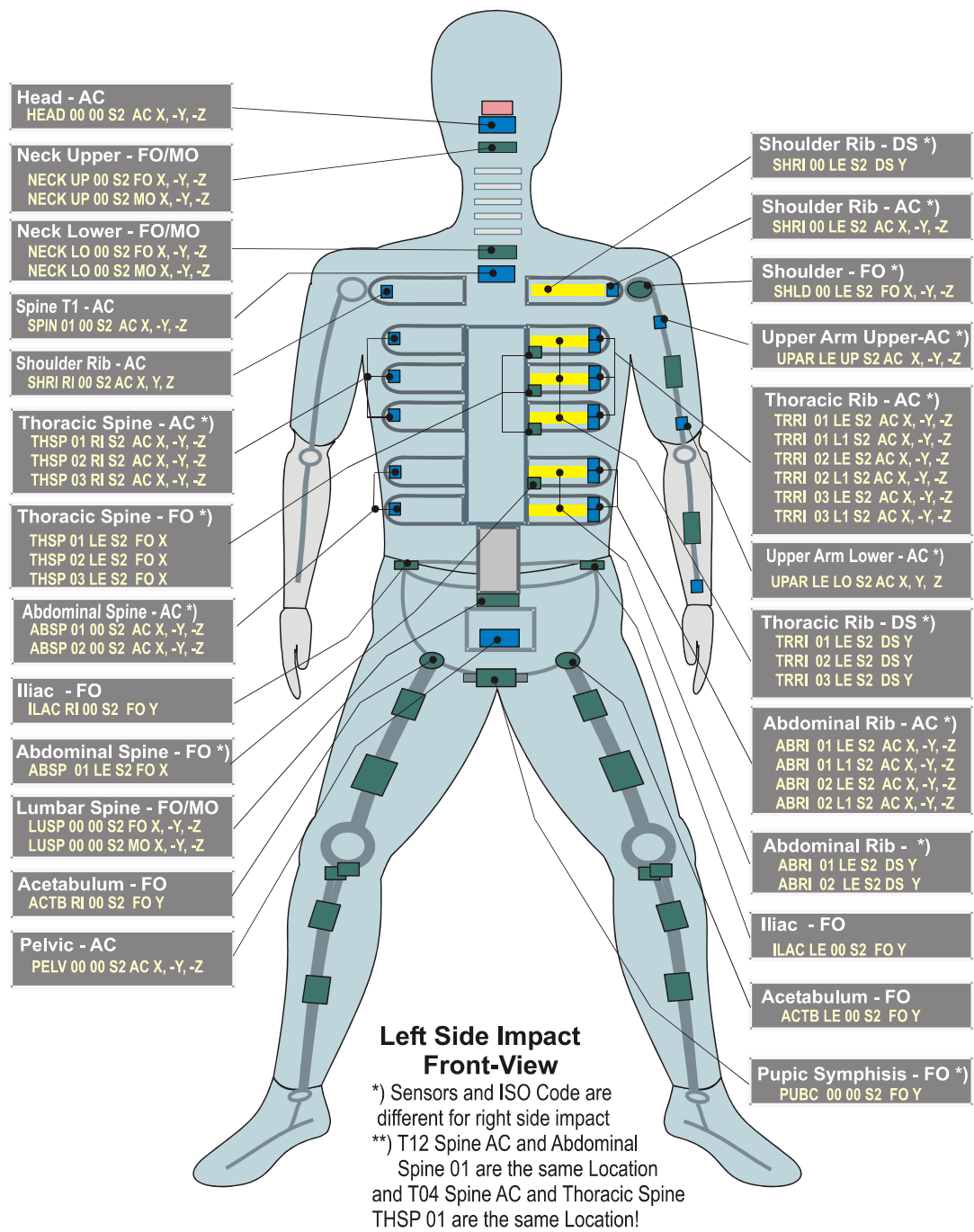
1.3





S2 SID IIs

Valid since Version 1.5

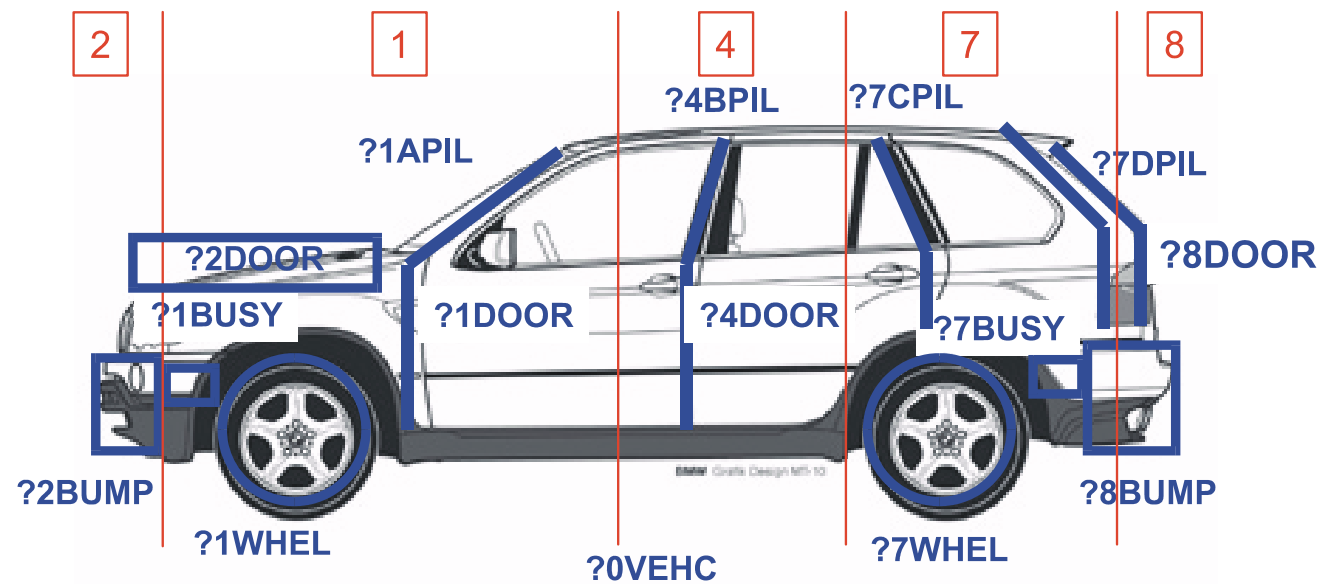


S2_1_20.wmf

->S2 <- 1 of 2

VEH Vehicle

Valid since Version 1.1



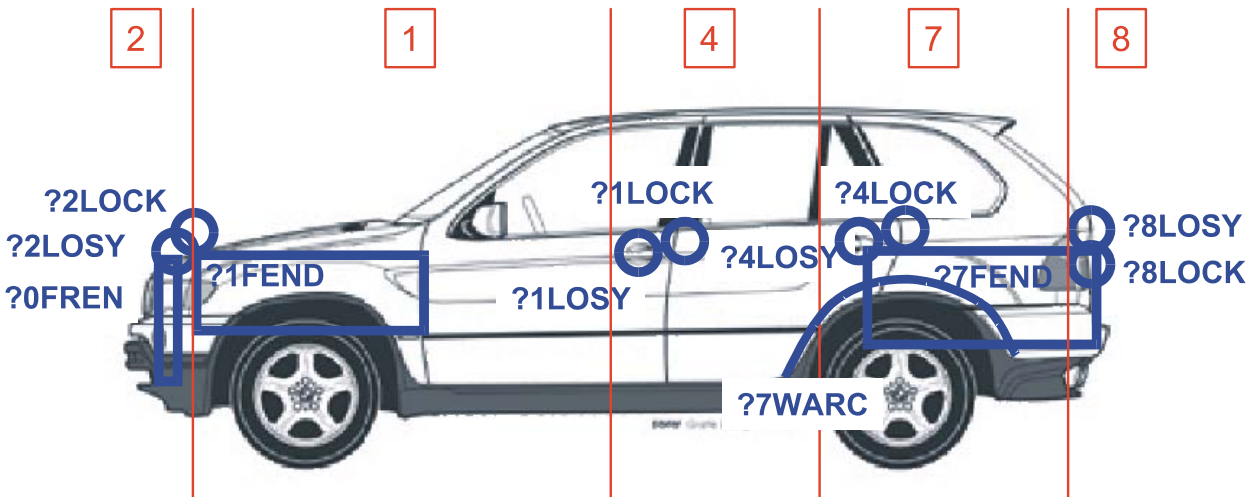
picture only
left side
of the vehicle

Pos	TML	
1	APIL	A-Pillar left
3	APIL	A-Pillar right
4	BPIL	B-Pillar left
6	BPIL	B-Pillar right
7	CPIL	C-Pillar left
9	CPIL	C-Pillar right
7	DPIL	D-Pillar left
9	DPIL	D-Pillar right
2	BUMP	Bumper front
8	BUMP	Bumper rear
1	BUSY	Bumper System front left
3	BUSY	Bumper System front right
7	BUSY	Bumper System rear left
9	BUSY	Bumper System rear right

Pos	TML	
1	WHEL	Wheel front left
3	WHEL	Wheel front right
7	WHEL	Wheel rear left
9	WHEL	Wheel rear right
2	DOOR	Hood / Door front
1	DOOR	Door front left
3	DOOR	Door front right
4	DOOR	Door rear left
6	DOOR	Door rear right
8	DOOR	Tailgate / Door backside
0	VEHC	Vehicle

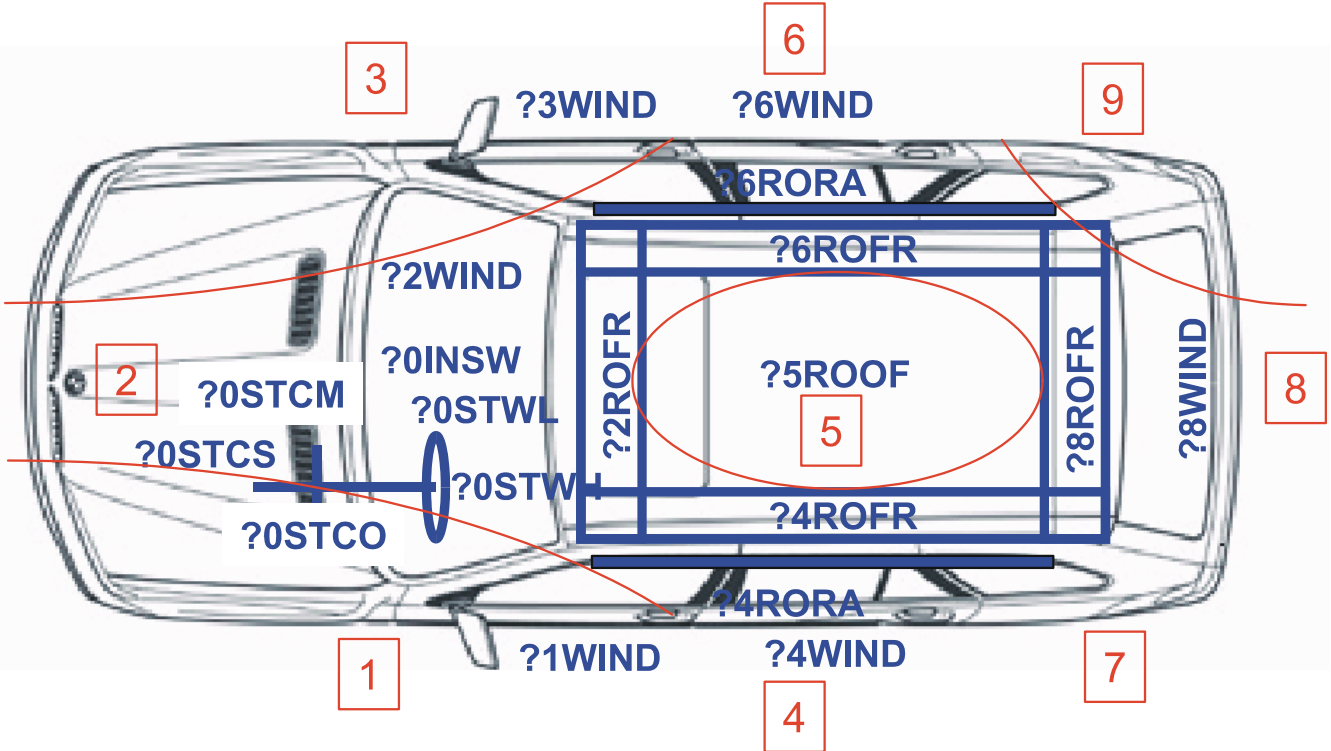
VEH Vehicle

Valid since Version 1.2



picture only
left side
of the vehicle

1	LOCK	Lock front left	1	FEND	Fender front left
3	LOCK	Lock front right	3	FEND	Fender front right
4	LOCK	Lock rear left	7	FEND	Fender rear left
6	LOCK	Lock rear right	9	FEND	Fender rear right
2	LOCK	Lock front	0	FREN	Frontend
8	LOCK	Lock rear	7	WARC	LH Rear Wheelarch
1	LOSY	Locking System front left			
3	LOSY	Locking System front right			
4	LOSY	Locking System rear left			
6	LOSY	Locking System rear right			
2	LOSY	Locking System front			
8	LOSY	Locking System rear			



Pos TML		

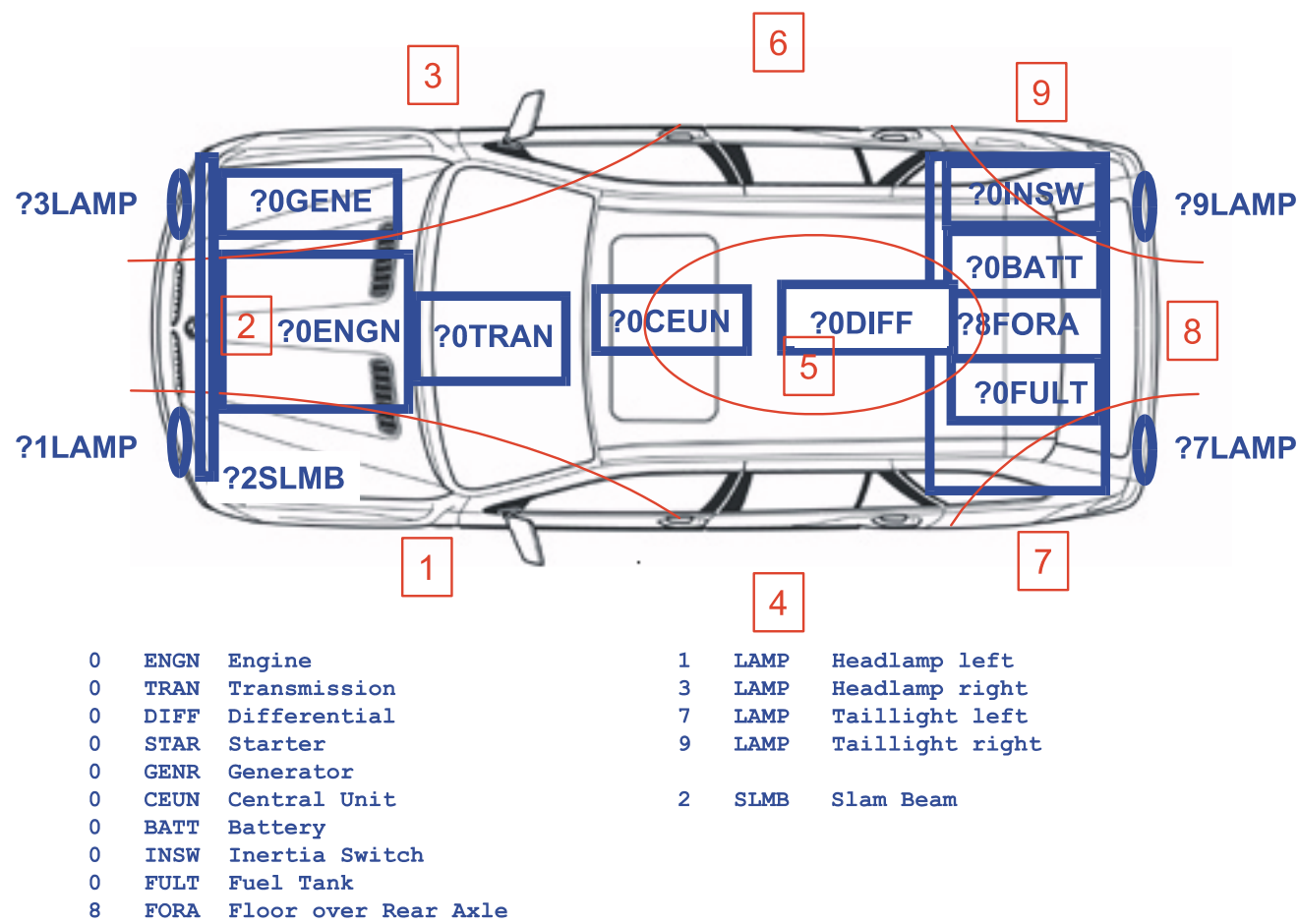
1	WIND	Window front left
2	WIND	Window front
3	WIND	Window front right
4	WIND	Window rear left
6	WIND	Window rear right
8	WIND	Window rear
0	STWL	Steering wheel
0	STWH	Steering wheel hub
0	STCO	Steering column
0	STCM	Steering column mount
0	STCS	Steering column Suspension

Pos TML		

5	ROOF	Roof
2	ROFR	Roof frame front
4	ROFR	Roof frame left
6	ROFR	Roof frame right
8	ROFR	Roof frame rear
4	RORA	Roof Rack left
6	RORA	Roof Rack right

VEH Vehicle

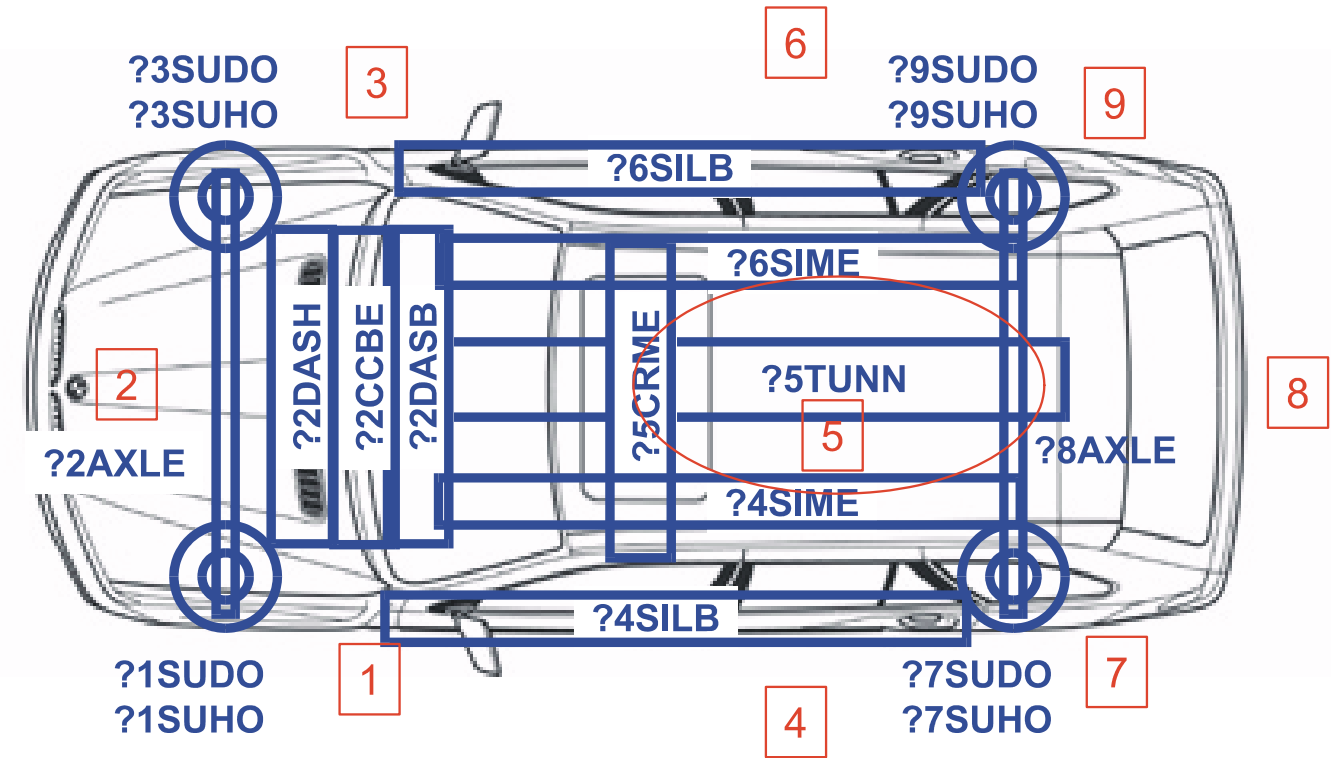
Valid since Version 1.2



VEH Vehicle

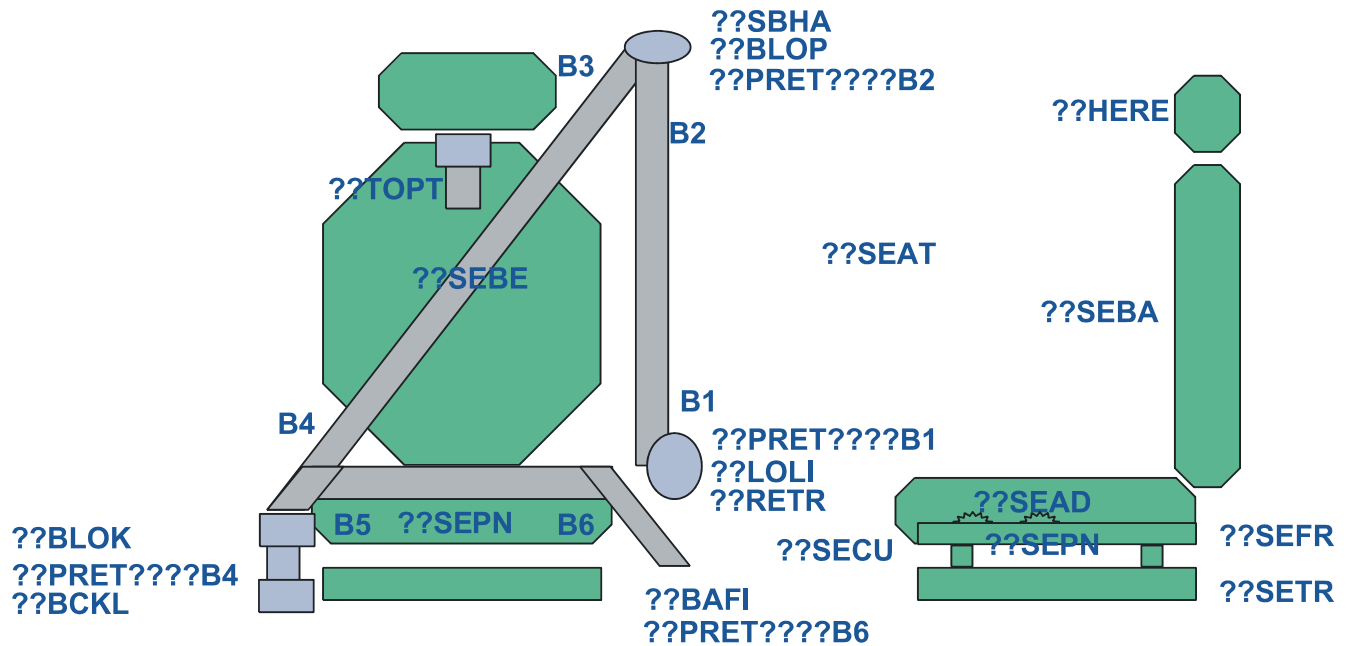
Valid since Version

1.1

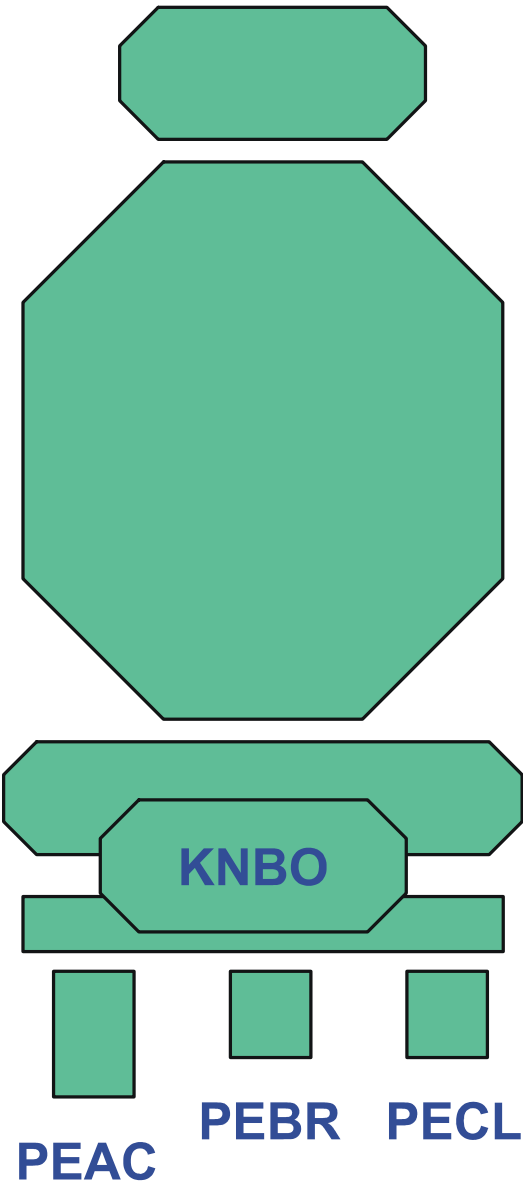


Pos	TML	
2	AXLE	Axle front
8	AXLE	Axle rear
2	DASH	Dash panel
2	CCBE	Cross Car Beam
2	DASB	Dash board
5	CRME	Cross member
6	SIME	Side member right
4	SIME	Side member left
5	TUNN	Tunnel
4	SILB	Sill beam left
6	SILB	Sill beam right

Pos	TML	
1	SUDO	Suspension dome front left
3	SUDO	Suspension dome front right
7	SUDO	Suspension dome rear left
9	SUDO	Suspension dome rear right
1	SUHO	Suspension housing front left
3	SUHO	Suspension housing front right
7	SUHO	Suspension housing rear left
9	SUHO	Suspension housing rear right



? SEBE ?? ?? B1	Seat belt at retractor	? RETR	Retractor
? SEBE ?? ?? B2	Seat belt below belt loop	? BLOP	Belt loop
? SEBE ?? ?? B3	Seat belt at upper diagonal belt	? BLOK	Belt lock
? SEBE ?? ?? B4	Seat belt at lower diagonal belt	? PRET	Pretentioner
? SEBE ?? ?? B5	Seat belt at lap belt inside	? BCKL	Buckle
? SEBE ?? ?? B6	Seat belt at lap belt outside	? HERE	Head Restraint
? SEAT	Seat	? SBHA	Seat Belt Hight Adjuster
? SEBA	Seat Back	? LOLI	Load Limiter
? SEFR	Seat Frame	? BAFI	Belt Anchor Fitting
? SETR	Seat Track		
? SEAD	Seat Adjuster	? SEPN	Pretensioner @ B1;B2;B4;B6
? SEPN	Seat Pan		

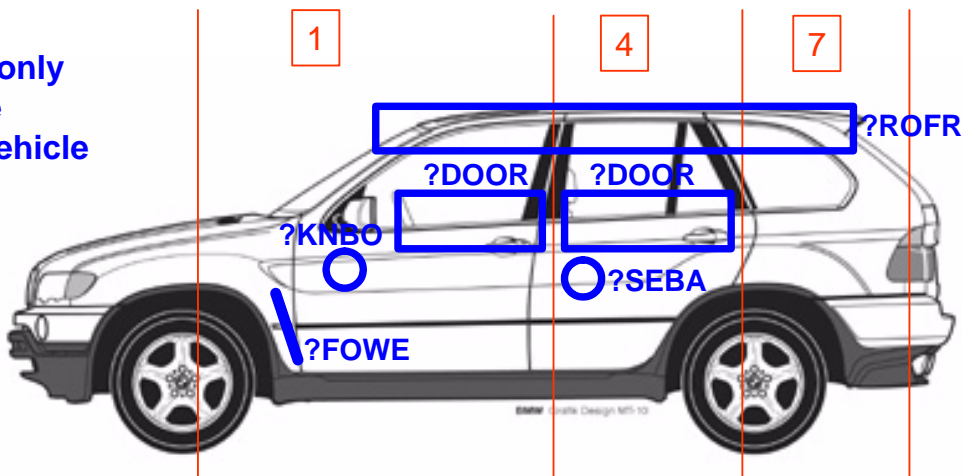


?	ABSE	Airbag sensor
?	KNBO	Knee bolster
?	AIRB	Airbag
0	PEAC	Pedal Accelerator
0	PEBR	Pedal Brake
0	PECL	Pedal Clutch

AIRB Airbag

Valid since Version 1.4

picture only
left side
of the vehicle

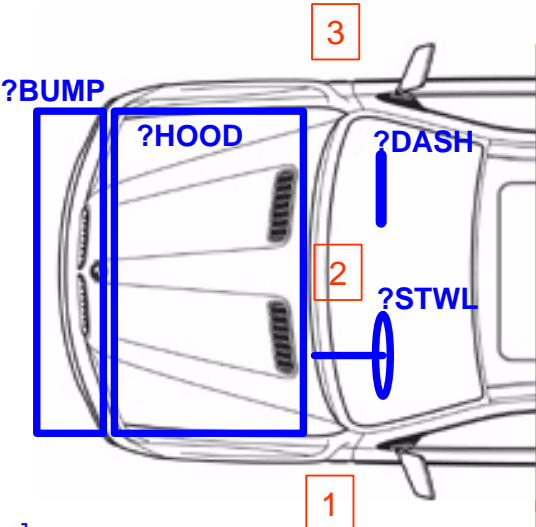


Side

- ? DOOR ?? ?? AH Door Head Airbag
- ? DOOR ?? ?? GH Door Head Infl./Gen.
- ? DOOR ?? ?? AS Door Side Airbag
- ? DOOR ?? ?? GS Door Side Infl./Gen.
- ? ROFR ?? ?? AH Roof Frame Head Airbag
- ? ROFR ?? ?? GH Roof Frame Infl./Gen.

Frontal

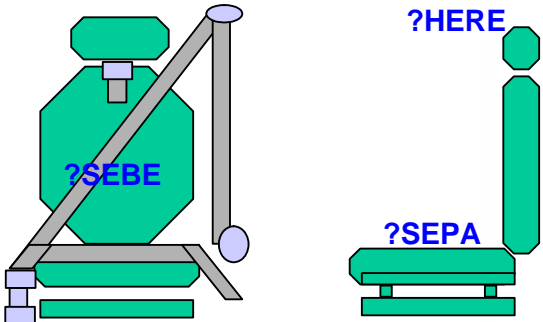
- ? KNBO ?? ?? AF Knee bolster Driver/Passenger Airbag
- ? KNBO ?? ?? GF Knee bolster Driver/Passenger Infl./Gen.
- ? SEBA ?? ?? AF Knee Airbag Seat back
- ? SEBA ?? ?? GF Knee Infl./Gen. Seat back
- ? FOWE ?? ?? AF Footwell Airbag
- ? FOWE ?? ?? GF Footwell Infl./Gen.



```

Frontal
? STWL ?? ?? AF Steering wheel Airbag
? STWL ?? ?? GF Steering wheel Infl./Gen.
? DASH ?? ?? AF Dashboard Airbag
? DASH ?? ?? GF Dashboard Infl./Gen.
Pedestrian
? BUMP ?? ?? AP Bumper Airbag
? BUMP ?? ?? GP Bumper Infl./Gen.
? HOOD ?? ?? AP Hood Airbag
? HOOD ?? ?? GP Hood Inflator/Generator

```

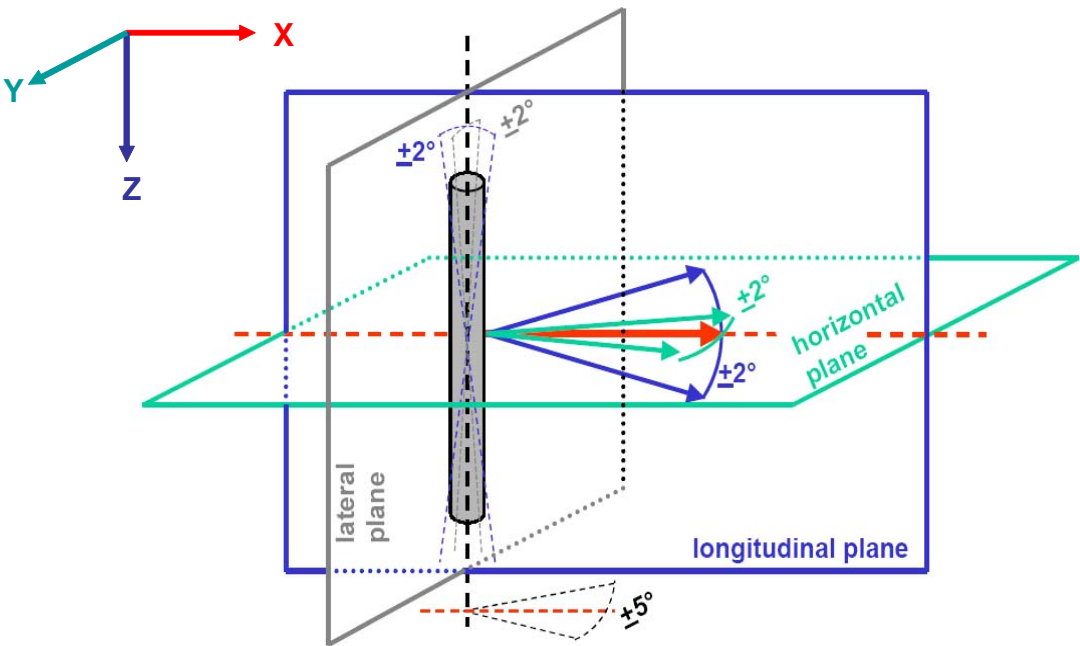


```

Frontal
? SEBE ?? ?? AF Seat belt Airbag
? SEBE ?? ?? GF Seat belt Infl./Gen.
Side
? SEPA ?? ?? AS Seat pan Airbag
? SEPA ?? ?? GS Seat pan Infl./Gen.
Rear
? HERE ?? ?? AR Head Restraint Airbag
? HERE ?? ?? GR Head Restraint Infl./Gen.

```

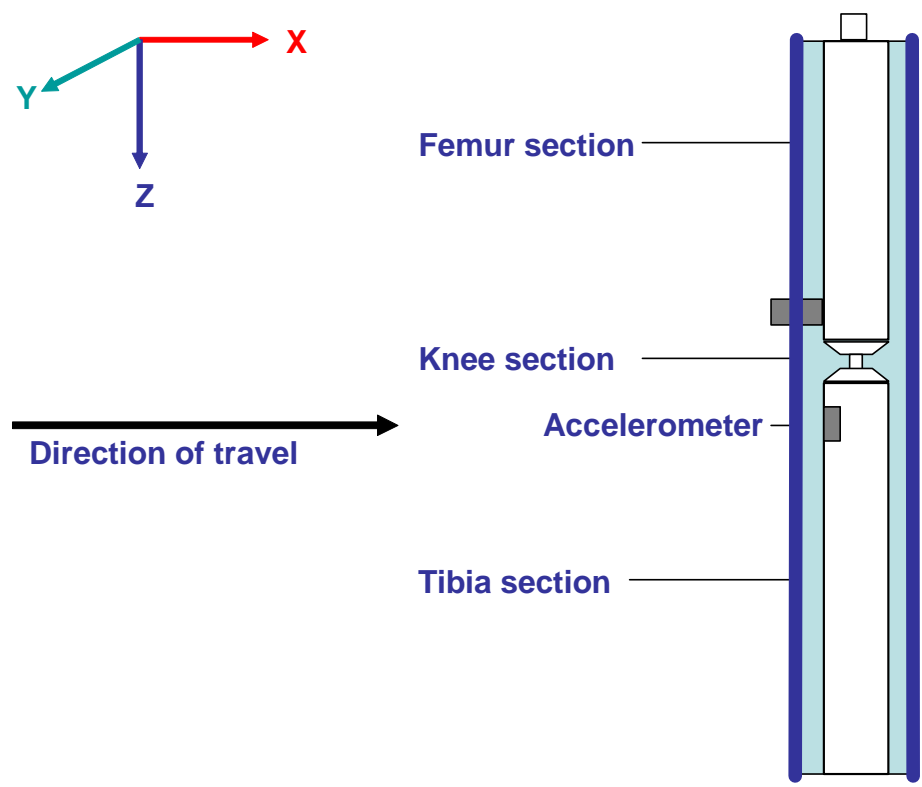
Pedestrian impactor coding
for legform measurements
- 1 -



Position X		D0FEMR0000PLDSX?
Position Y		D0FEMR0000PLDSY?
Position Z		D0FEMR0000PLDSZ?
Orientation X	lateral plane XZ	D0FEMR0000PLANX?
Orientation Y	longitudinal plane XZ	D0FEMR0000PLANY?
Orientation Z	horizontal plane XY	D0FEMR0000PLANZ?
Flight path angle	longitudinal plane XZ	D0FEMR0001PLANY?
Flight path angle	horizontal plane XY	D0FEMR0001PLANZ?
Indentation	at hit point	D0TIBIUP00PLDSX?
Impact velocity		D0FEMR0000PLVDX?

If the measurements are generated by film analysis the filter class has to be v.

Pedestrian impactor coding
for legform measurements
- 2 -



Tibia acceleration	transducer	D0TIBIUP00PLACX?
Bending angle femur	transducer	D0FEMR0000PLANY?
Bending angle tibia	transducer	D0TIBIUP00PLANY?
Bending angle effective	calculation	D0KNEE0000PLANY?
Shear displacement	calculation	D0FEMR0000PLDSX?