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## **Supplemental material**

### **Effect of surgical experience and spine subspecialty on the reliability of the AO Spine Upper Cervical Injury Classification System**

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Supplemental Appendix A: List of injuries evaluated by AO Spine members. Cases were randomized during both assessment one and two

<b>AO Classification</b>	<b>Previous Classification</b>	<b>Description of Injury</b>
<b>IA</b>	Anderson and Montesano type II	Simple midsubstance sagittal fracture of the occipital condyle
<b>IA</b>	Anderson and Montesano type II	Simple sagittal fracture of the occipital condyle
<b>IIA</b>	Jefferson I / Gehweiler I	Unilateral fracture of the anterior arch of the atlas
<b>IIA</b>	Jefferson I / Gehweiler I	Unilateral fracture of the anterior arch of the atlas
<b>IIA</b>	Jefferson I / Gehweiler I	Unilateral fracture of the anterior arch of the atlas
<b>IIA</b>	Jefferson I / Gehweiler I	Unilateral fracture of the anterior arch of the atlas
<b>IIIA</b>	Anderson and D'Alonzo type II	Anterior to posterior oblique fracture of the dens
<b>IIIA</b>	Anderson and D'Alonzo type II	Anterior to posterior oblique fracture of the dens
<b>IIIA</b>	Anderson and D'Alonzo type III	Fracture of the cephalad C2 body below the watershed line of the dens
<b>IIIA</b>	Anderson and D'Alonzo type III	Posterior to anterior oblique fracture at the rostral C2 body
<b>IIB</b>	Gehweiler III	Unilateral avulsion fracture of the TAL from the atlas
<b>IIB</b>	Gehweiler III	Unilateral avulsion fracture of the TAL from the atlas
<b>IIB</b>	Gehweiler III	Unilateral avulsion fracture of the TAL from the atlas
<b>IIB</b>	Gehweiler III/IV	Unilateral avulsion fracture of the TAL with an associated lateral mass fracture without translation of the atlas
<b>IIIB</b>	Benzel type I Mechanism: extension with axial load	Coronally oriented vertical C2 dens/body fracture
<b>IIIB</b>	Benzel type I Mechanism: extension with axial load	Coronally oriented vertical C2 dens/body fracture
<b>IIIB</b>	Extension teardrop	Avulsion fracture of the ALL from the dens
<b>IC</b>	Traynellis I /Harbourview III	Anterior dislocation of the craniocervical junction
<b>IC</b>	Traynellis I /Harbourview III	Anterior dislocation of the craniocervical junction
<b>IIC</b>	C1-C2 dislocation	Vertical distraction of the C1-C2 joint
<b>IIC</b>	C1-C2 dislocation	Posterior translation of the C1-C2 joint
<b>IIIC</b>	Benzel type I Mechanism: hyperextension with axial load	Avulsion fracture of the PLL with anterior disc space opening of C2
<b>IIIC</b>	Benzel type I Mechanism: hyperextension with axial load	Extension teardrop with posterior translation of C2 on C3
<b>IIIC</b>	Benzel type I Mechanism: flexion with axial load	Anterior translation of C2 on C3 with quadrangular fragment