

**Appendix 2 (as supplied by authors):** Definition of injuries

Injury detected by the index or reference test, or region	Detailed description
1 Skull fracture	Any single or multiple fractures of the neurocranium (including the skull base), with and without displacement
2 Brain injury	Any supratentorial subarachnoid, epi- or intradural hemorrhage, single or multiple, uni- or bi-hemispherical brain tissue contusion with or without bleeding (including diffuse axonal damage)
3 Extracranial vessel injury	Any uni- or bilateral dissection or disruption of the carotid or vertebral arteries, or injuries to major cervical veins
4 Cervical spine injury	Any single or multi-level fracture of the cervical spine, disco-ligamentary rupture, or spinal cord injury
5 Head and neck (ISS region)	Any single injury or combination of injuries numbered 1 to 4
6 Face (ISS region)	Any single or multiple fractures of the facial (including orbital) bones, the maxilla or mandible, or soft tissue injury
7 Thoracic spine injury	Any single or multi-level fracture of the cervical spine, disco-ligamentary rupture, or spinal cord injury
8 Serial rib fractures	Fractures of three or more consecutive ribs on either side, with or without dislocation
9 Lung contusion	Single or multiple lung tissue contusions of the upper or lower lobe with or without bleeding, either side
10 Pneumothorax	Intrapleural air collection with collapse of the lung of any size and on either side
11 Hemothorax	Any collection of blood in either hemi-thorax
12 Aortic and cardiac injuries	Any contained or perforating dissection or rupture of the thoracic aorta or heart, or pericardial hematoma
13 Chest (ISS region)	Any single injury or combination of injuries numbered 7 to 12

**Appendix 2 (as supplied by authors):** (continued) Definition of injuries

Injury detected by the index or reference test, or region	Detailed description
14 Lumbar spine injury	Any single or multi-level fracture of the lumbar spine, disco-ligamental rupture, or spinal cord injury
15 Liver injury	Single or multiple contusions or lacerations of hepatic tissue in any lobe, with or without rupture of the liver capsule and bleeding
16 Splenic injury	Single or multiple contusions or lacerations of splenic tissue, with or without rupture of the liver capsule and bleeding
17 Hollow visceral and mesenterial tears	Any single or multiple perforation or rupture of the small intestine or colorectum, or single or multiple tears of the mesenterium with or without bleeding
18 Hemoperitoneum	Any intra-abdominal collection of blood
19 Retroperitoneal bleeding	Any collection of blood in the retroperitoneal space
20 Kidney injury	Any uni- or bi-lateral contusion, rupture, or other injury to the kidney, with or without active bleeding
21 Abdomen (ISS region)	Any single injury or combination of injuries numbered 14 to 20
22 Pelvic ring fracture	Any uni- or bilateral fracture of the pubic rami or ischium bones, with and without dislocation, rupture of the symphysis, stable or unstable, uni- or bilateral fracture of the iliac bones or sacro-iliac disruption
23 Acetabular fracture	Any uni- or bilateral fracture of the acetabulum, with or without dislocation of fragments or the hip joint
24 Pelvic ring (part of ISS region Extremities)*	Any single injury or combination of injuries numbered 22 to 23

Individual injuries were defined in advance and by consensus between radiologists, trauma and orthopaedic surgeons, and the methodological supervisor.

\* This study considered only injuries usually displayed with common pan-scan protocols.