

Abdominal Injuries Severity Scale

Splenic injury scale

- Grade I** **Hematoma:** Subcapsular, nonexpanding, <10% surface area
 Laceration: Capsular tear, nonbleeding, <1 cm parenchymal depth
- Grade II** **Hematoma:** Subcapsular, nonexpanding, 10-50% surface area; intraparenchymal, nonexpanding, <2 cm in diameter
 Laceration: Capsular tear, active bleeding; 1-3 cm parenchymal depth that does not involve trabecular vessel
- Grade III** **Hematoma:** Subcapsular, >50% surface area or expanding; ruptured subcapsular hematoma with active bleeding; intraparenchymal hematoma >2 cm or expanding
 Laceration: >3 cm parenchymal depth or involving trabecular vessel
- Grade IV** **Hematoma:** Ruptured intraparenchymal hematoma with active bleeding
 Laceration: Laceration involving segmental or hilar vessels producing major devascularisation (>25% of spleen)
- Grade V** **Laceration:** Completely shattered spleen
 Vascular: Hilar vascular injury that devascularizes spleen

Liver injury scale

- Grade I** **Hematoma:** Subcapsular, nonexpanding, <10% surface area
 Laceration: Capsular tear, nonbleeding, <1 cm parenchymal depth
- Grade II** **Hematoma:** Subcapsular, nonexpanding, 10%-50% surface area; intraparenchymal, nonexpanding, <2 cm in diameter
 Laceration: Capsular tear, active bleeding; 1-3 cm parenchymal depth, <10 cm in length
- Grade III** **Hematoma:** Subcapsular, >50% surface area or expanding; ruptured subcapsular hematoma with active bleeding; intraparenchymal hematoma >2 cm or expanding
 Laceration: >3 cm parenchymal depth
- Grade IV** **Hematoma:** Ruptured intraparenchymal hematoma with active bleeding
 Laceration: Parenchymal disruption involving 25-50% of hepatic lobe
- Grade V** **Laceration:** Parenchymal disruption involving >50% of hepatic lobe
 Vascular: Juxtahepatic venous injuries (i.e., retrohepatic vena cava / major hepatic veins)
- Grade VI** **Vascular:** Hepatic avulsion

Renal injury scale

- Grade I** **Contusion:** Microscopic or gross hematuria; urologic studies normal
 Hematoma: Subcapsular, nonexpanding without parenchymal laceration
- Grade II** **Hematoma:** Nonexpanding perirenal hematoma confined to renal retroperitoneum
 Laceration: <1 cm parenchymal depth of renal cortex without urinary extravasation
- Grade III** **Laceration:** >1 cm parenchymal depth of renal cortex without collecting system rupture or urinary extravasation
- Grade IV** **Laceration:** Parenchymal laceration extending through the renal cortex, medulla, and collecting system
 Vascular: Main renal artery or vein injury with contained hemorrhage
- Grade V** **Laceration:** Completely shattered kidney
 Vascular: Avulsion of renal hilum, which devascularizes kidney

Duodenum injury scale

- Grade I** **Hematoma:** Involving single portion of duodenum
 Laceration: Partial thickness, no perforation
- Grade II** **Hematoma:** Involving more than one portion
 Laceration: Disruption <50% of circumference
- Grade III** **Laceration:** Disruption 50-70% circumference D2; Disruption 50-100% circumference D1, D3, D4
- Grade IV** **Laceration:** Disruption >75% circumference of D2; involves ampulla or distal common bile duct
- Grade V** **Laceration:** Massive disruption of duodenum-pancreatic complex
 Vascular: Devascularisation of duodenum