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### **AAST LIVER INJURY SCALE\***

<b>Grade</b>	<b>Imaging Criteria</b>
I	-Subcapsular hematoma <10% surface area -Parenchymal laceration <1 cm in depth
II	-Subcapsular hematoma 10-50% surface area; intraparenchymal hematoma <10 cm in diameter -Laceration 1-3 cm in depth and ≤ 10 cm length
III	-Subcapsular hematoma >50% surface area; ruptured subcapsular or parenchymal hematoma -Intraparenchymal hematoma > 10 cm -Laceration > 3 cm depth -Any injury in the presence of a liver vascular injury or active bleeding contained within liver parenchyma
IV	-Parenchymal disruption involving 25-75% of a hepatic lobe -Active bleeding extending beyond the liver parenchyma into the peritoneum
V	-Parenchymal disruption >75% of hepatic lobe -Juxtahepatic venous injury to include retrohepatic vena cava and central major hepatic veins

### **AAST RENAL INJURY SCALE\***

<b>Grade</b>	<b>Imaging Criteria</b>
I	-Subcapsular hematoma and/or parenchymal contusion without laceration
II	-Perirenal hematoma confined to Gerota fascia -Renal parenchymal laceration ≤ 1 cm depth without urinary extravasation
III	-Renal parenchymal laceration >1 cm depth without collecting system rupture or urinary extravasation -Any injury in the presence of a kidney vascular injury or active bleeding contained within Gerota fascia
IV	-Parenchymal laceration extending into urinary collecting system with urinary extravasation -Renal pelvis laceration and/or complete ureteropelvic disruption -Segmental renal vein or artery injury -Active bleeding beyond Gerota fascia into the retroperitoneum or peritoneum -Segmental or complete kidney infarction(s) due to vessel thrombosis without active bleeding
V	-Main renal artery or vein laceration or avulsion of hilum -Devascularized kidney with active bleeding -Shattered kidney with loss of identifiable parenchymal renal anatomy

**Origination date:** 01/31/1998


**Prepared by:** MGR, TRAUMA PROGRAM

**Approved by:** MEDICAL DIR TRAUMA - CARY, MEDICAL DIR TRAUMA - RALEIGH

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### **AAST SPLEEN INJURY SCALE\***

<b>Grade</b>	<b>Imaging Criteria</b>
I	-Subcapsular hematoma <10% of surface area -Parenchymal laceration <1 cm depth -Capsular tear
II	-Subcapsular hematoma 10-50% surface area; intraparenchymal hematoma <5 cm -Parenchymal laceration 1-3 cm
III	-Subcapsular hematoma >50% surface area; ruptured subcapsular or intraparenchymal hematoma $\geq$ 5 cm -Parenchymal laceration >3 cm depth
IV	-Any injury in the presence of a splenic vascular injury or active bleeding confined within splenic capsule -Parenchymal laceration involving segmental or hilar vessels producing >25% devascularization
V	-Any injury in the presence of splenic vascular injury with active bleeding extending beyond the spleen into the peritoneum -Shattered spleen

### **AAST PANCREAS INJURY SCALE\***

<b>Grade</b>	<b>Type of Injury</b>	<b>Description of Injury</b>
I	Hematoma	Minor contusion without duct injury
	Laceration	Superficial laceration without duct injury
II	Hematoma	Major contusion without duct injury or tissue loss
	Laceration	Major laceration without duct injury or tissue loss
III	Laceration	Distal transection or parenchymal injury with duct injury
IV	Laceration	Proximal transection or parenchymal injury involving ampulla
V	Laceration	Massive disruption of pancreatic head

\*Advance one grade for multiple injuries, up to Grade III.

**Origination date:** 01/31/1998


**Prepared by:** MGR, TRAUMA PROGRAM

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