IAI (Intra-Abdominal Injury) Study: Pancreas injury Data Collection Form #7a

Patient Study ID Number:



Pancreatic Injury

This form to be completed on all patients with pancreatic injuries documented on Form 6b.

This form asks questions about different methods that may be used to diagnose a pancreatic injury. Please answer "Yes" or "No" to whether the patient had the diagnostic test or not. The form finally asks if the pancreas is injured in more than one location and if there were any complications. There are a total of 10 parent questions. Please answer all 10 and if the answer is "Yes" to any of the parent questions, please answer all the sub-questions as outlined below.

If the patient did have the diagnostic test, then answer if that test demonstrated evidence of pancreatic injury. If it did, answer the two sub-questions about the grade of injury and status of the pancreatic duct. If you would like to review the manuscript that the injury grades are based on see - Moore EE, et al: Organ injury scaling II: pancreas, duodenum, small bowel, colon and rectum. *J Trauma* 30:1427, 1990. The grades of pancreatic injury are listed below. If the patient has more than one injury to the pancreas, simply document the highest grade of injury.

Definitions of AAST grades for Pancreatic injuries

Grade I Hematoma: Minor contusion without duct injury
Laceration: Superficial laceration without duct injury

Grade II Hematoma: Major contusion without duct injury or tissue loss

Laceration: Major laceration without duct injury or tissue loss

Grade III Laceration: Distal transection or parenchymal injury with duct injury

Grade IV Laceration: Proximal transection or parenchymal injury involving ampulla

(Proximal pancreas is to the patients' right of the superior mesenteric vein.)

Grade V Laceration: Massive disruption of pancreatic head

Please make your best attempt to grade the injury based on the particular imaging/diagnostic test.

Please contact the PI (jfholmes@ucdavis.edu) with any questions.

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Patient Study ID Number:				
	-			
Study #	Site #	Patient #		

If Yes, d	id the patient have a pancreatic injury at laparotomy/laparoscopy: □ Yes □ No
_	atient had a pancreatic injury at laparotomy/laparoscopy, please answer stions A and B.
A) Gr	ade of injury at laparotomy/laparoscopy Injury grades provided on 1st page of this form
	AAST Grade 1 or 2 (classify further below if information available) AAST Grade 1 AAST Grade 2 Unclear if Grade 1 or Grade 2
	AST Grade 3, 4 or 5 (classify further below if information available) AAST Grade 3 AAST Grade 4 AAST Grade 5 Unclear if Grade 3, 4, or 5
	Unable to determine pancreatic injury grade by laparotomy/laparoscopy report
	Only traumatic finding at laparotomy/laparoscopy is fluid around the pancreas
	Creatic duct status based on laparotomy/laparoscopy note: Duct transected Duct not transected Duct status indeterminate despite clear mention of attempt at ascertainment
L	Attempt at ascertaining duct status not mentioned in laparotomy/laparoscopy report or medical record

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s injury Data Collection Form #7a				
	Study #	Site #	Patient #	
2. Did the patient have an abdominal CT scan? \square Yes \square No:				
If Yes, was there evidence of pancreatic If yes, answer questions A and B findings on the CT. You may as necessary.	on the grade	of pancreation	injury based on	
A. Grade of pancreatic injury on	CT scan Injur	y grades provide	ed on 1 st page of this form.	
□ AAST Grade 1 or 2 (classify for a AAST Grade 1 □ AAST Grade 2 □ Unclear if Grade 1 or Grade 1 or Grade 3 □ AAST Grade 3 □ AAST Grade 4 □ AAST Grade 5 □ Unclear if Grade 3, 4, or 5	e 2			
☐ Unable to determine pancreati	ic injury grade	by CT (try to	avoid this answer)	
Only CT finding is fluid around	nd the pancrea	us		
B) Pancreatic duct status based on Duct transected Duct not transected Duct status indeterminate of No mention of duct status of	on CT			

Patient Study ID Number:

Patient Study ID Number: IAI (Intra-Abdominal Injury) Study: Pancreas injury Data Collection Form #7a Study # Site # Patient # 3. Did the patient have a MRI? \square Yes \square No: If Yes, was there any evidence of pancreatic injury on MRI: \square Yes \square No: If yes, answer questions A and B on the pancreatic injury based on findings on the MRI. You may ask your site radiologist if needed. A) Grade of pancreatic injury on MRI Injury grades provided on 1st page of this form. AAST Grade 1 or 2 (classify further below if information available) ☐ AAST Grade 1 ☐ AAST Grade 2 ☐ Unclear if Grade 1 or Grade 2 AAST Grade 3, 4 or 5 (classify further below if information available) ☐ AAST Grade 3 ☐ AAST Grade 4 ☐ AAST Grade 5 ☐ Unclear if Grade 3, 4, or 5 Unable to determine pancreatic injury grade by MRI (try to avoid this answer) Only MRI finding is fluid around the pancreas B) **Pancreatic duct status** based on MRI:

Duct transected

Duct not transected ☐ Duct status indeterminate on MRI ☐ No mention of duct status on MRI 4. Did the patient have an ERCP (Endoscopic Retrograde Cholangiopancreatography? \square Yes \square No If Yes, was there any evidence of pancreatic injury on ERCP: \square YeS If yes, document the grade of pancreatic injury (A) and duct status (B) based on findings on the ERCP. You may ask your site radiologist if needed. A) Grade of pancreatic injury on ERCP Injury grades provided on 1st page of this form. AAST Grade 1 or 2 (classify further below if information available) ☐ AAST Grade 1 ☐ AAST Grade 2 ☐ Unclear if Grade 1 or Grade 2 AAST Grade 3, 4 or 5 (classify further below if information available) ☐ AAST Grade 3

□ AAST Grade 4□ AAST Grade 5

☐ Unclear if Grade 3, 4, or 5

☐ Duct status indeterminate on ERCP

Unable to determine pancreatic injury grade by ERCP

B) Pancreatic duct status based on ERCP:

Duct transected

Duct not transected

☐ No mention of duct status on ERCP

IAI (Intra-Abdominal Injury) Study: Pancreas injury Data Collection Form #	Patient Study ID Number:		
5. Did the patient have	Study # Site # Patient # elevated (above the normal level at your site)		
pancreatic enzymes (Ar (if yes, answer 5a and 5b):	mylase or Lipase): □ Yes □ No		
5a. Please list the highest measur (within 96 hours of ED arrival):	red lipase and date/time that the peak lipase was obtained		
	te and time of highest lipase:/_/_ : : 24 hour clock uring the ED or hospitalization		
5b. Please list the highest measur obtained (within 96 hours of ED	red amylase and date/time that the peak lipase was arrival):		
	te and time of highest lipase: :/_/_ : : 24 hour during the ED or hospitalization		
suspicion of the treating	njury identified solely by clinical g physician (patient had normal mal pancreas on CT scan and or		
surgery): \square Yes \square No			
If "Yes" provide text for the reinjury:	asons the patient was diagnosed with a pancreatic		

Patient Study ID Number: IAI (Intra-Abdominal Injury) Study: Pancreas injury Data Collection Form #7a Patient # Study # Site # 7. Did the patient have an autopsy: \square Yes \square No If Yes, was there any evidence of pancreatic injury at autopsy: \square Yes If yes, document the grade of pancreatic injury and duct status based on the autopsy. A) Grade of pancreatic injury on autopsy Injury grades provided on 1st page of this form. AAST Grade 1 or 2 (classify further below if information available) ☐ AAST Grade 1 ☐ AAST Grade 2 ☐ Unclear if Grade 1 or Grade 2 ☐ AAST Grade 3, 4 or 5 (classify further below if information available) ☐ AAST Grade 3 ☐ AAST Grade 4 ☐ AAST Grade 5 ☐ Unclear if Grade 3, 4, or 5 Only autopsy finding was fluid around the pancreas B) **Pancreatic duct status** based on autopsy: ☐ Duct transected ☐ Duct not transected ☐ Duct status indeterminate on autopsy ☐ No mention of duct status on autopsy

8. F	Pancreatic injury identified by other means ☐ Yes ☐ No If yes, list method:
	☐ AAST Grade 1 or 2 (classify further below if information available)
	☐ AAST Grade 1
	☐ AAST Grade 2
	☐ Unclear if Grade 1 or Grade 2
	☐ AAST Grade 3, 4 or 5 (classify further below if information available)
	☐ AAST Grade 3
	☐ AAST Grade 4
	☐ AAST Grade 5

☐ Unclear if Grade 3, 4, or 5

IAI (Intra-A Pancreas i

-Abdominal Injury) Study: s injury Data Collection Form #7a	Patient Study ID Number:		
	Study # Site # Patient #		
9. Was the pancreas inju	red in more than one location:		
□Yes □ No □ Uncle	ear if the pancreas was injured in >1 location		
10. Pancreatic complication □ None	s (check all that apply):		
☐ Pancreatic fistula (drainage of amylase-rich fluid)	e of more than 70 ml for more than 5 days		
□ Pseudocyst			
o Pseudocyst drained:	□ Yes □ No		
 Laparotomy to 	o drain pseudocyst: Yes No		
Interventional	radiology drained pseudocyst: ☐ Yes ☐ No		
☐ Peripancreatic abscess			
o Abscess drained: □	Yes □ No		
 Laparotomy to 	o drain abscess: Yes No		
 Interventional 	radiology drained abscess: ☐ Yes ☐ No		
☐ Leak from pancreatico-ent	eric anastomosis		
o Repeat operation to	repair leak: ☐ Yes ☐ No		
☐ Bleeding (post-laparotomy) from pancreas		
o Repeat operation for	pancreas bleeding: Yes No		
☐ Traumatic pancreatitis			
☐ Death from pancreatic inju	☐ Death from pancreatic injury		
☐ Sepsis from the pancreatic	☐ Sepsis from the pancreatic injury		
☐ Other complication from the describe:	ne pancreatic injury not listed above:		