

**University of Utah  
Data Coordinating Center**

**ANNOTATED eCRF FOR PUBLIC USE DATASETS**

**PECARN Protocol Number 020**

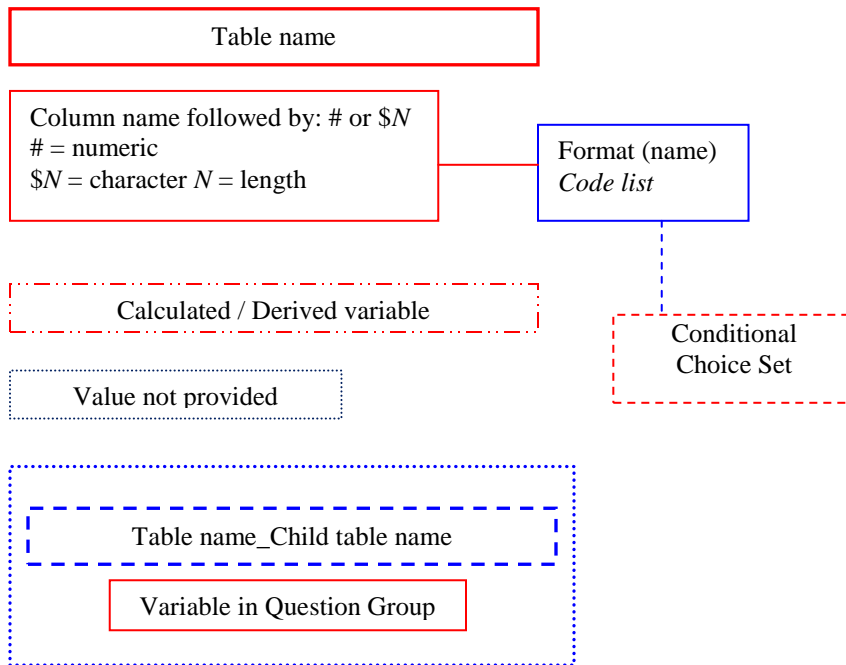
**A Clinical Decision Rule to Identify Children with  
Intra-abdominal Injuries**

**Primary Investigator:  
James Holmes, M.D., University of California, Davis**

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**Annotations key:**



## Intra-abdominal Injury Annotated PUD eCRF

### Notes:

All dates have been recoded to reflect the number of calendar days from the emergency department triage date at the study site.

Sensitive and/or identifying information entered in free text fields has been removed from the public use datasets.

Many of the datasets include only one record per subject (unique identifier *SubjectID*). Other datasets are relational, that is, may have more than one record per patient. These records are uniquely identified by *SubjectID* and *Repeat\_Instance*.

The following variables are special ID variables used to link different datasets:

Variable	Table name	Description
CTID #	form4a_abdct form4bct	ID for merging form4a_abdct and form4bct datasets
USID #	form4a_us form4bus	ID for merging form4a_us and form4bus datasets
OtherID #	form4a_abdothor form4bother_abdangio form4bother_abdmri form4bother_bladder form4bother_pelangio form4bother_uppergi	ID for merging form4a_abdothor and form4bother datasets
CTFindingsID #	form4bct form4bct_ctfindings	ID for merging form4bct and form4bct_ctfindings datasets
US4BID #	form4bus form4bus_ipfluidloc form4bus_iaiorgansinj	ID for merging form4bus, form4bus_iaiorgansinj, form4bus_ipfluidloc datasets
ABDPROCID #	form6c form6c_spleeninterv form6c_liverinterv form6c_stomachinterv form6c_smintesinterv form6c_lgintesinterv form6c_kidneyinterv form6c_pancreasinterv form6c_gallbladinterv form6c_fascialinterv form6c_urinaryinterv	ID for merging all Form 6c datasets

# Intra-abdominal Injury Annotated PUD eCRF

demographics (1 of 1)

## Demographics

Demographics Data		Enrollment Data	
<b>Essential Identifying Info (Birthdate, Sex, Race) ---- * Indicates required fields</b>			
*Patient ID	SubjectID #	* Date of Birth (use 4 digits for year)	ageinyrs #
Initials	Value not provided	*Sex	SEX \$25
Hispanic/Latino Ethnicity?	HISPANIC_ETHNICITY #	Race Other	OTHER_RACE \$50
Date Created:	Value not provided	Test Patient?	Value not provided
DV6484G -1 = Hispanic or Latino 0 = Not Hispanic or Latino 1 = Unknown		DV403G 1 = American Indian or Alaska Native 2 = Asian 3 = Black or African American 4 = Native Hawaiian or Other Pacific Islander 5 = White 6 = Stated as Unknown 7 = Other	

Save Show Printable version Exit Demographics/Enrollment

# Intra-abdominal Injury Annotated PUD eCRF

form1 (1 of 9)

## ED Visit

ED Physician Information			
Name of Physician	<input type="text" value="Value not provided"/>		
Certification of physician completing form or providing oversight	Certification #	<input type="text" value="Value not provided"/>	
Specify other certification	<div>DV618G</div> <div>1 - Known</div> <div>2 - Unknown</div>		
Information on each child			
Date of Injury	InjuryDay #	Time of Injury known?	InjTmKnown #
Estimated Time of Injury	InjuryTime \$5		
Date of ED Triage	EDTriageDay #	Time of ED Triage known?	EDTriageTime \$5
Approximate weight in kilograms	ApproxWtKg #	TriageTmUnkown #	
Select how weight was assessed	WtAssessment #		

DV558G  
 1 - Actual Weight  
 2 - Parent Estimate  
 3 - Broselow Weight  
 4 - Clinician Estimate

DV618G  
 1 - Known  
 2 - Unknown

DV5427G  
 1 - Emergency Medicine Faculty  
 2 - Pediatric Faculty  
 3 - Pediatric Emergency Medicine Faculty  
 4 - General/Trauma Surgery Faculty  
 5 - Pediatric Surgery Faculty  
 6 - Internal Medicine Faculty  
 7 - Family Practice Faculty  
 8 - Pediatric Emergency Medicine Fellow  
 9 - Pediatric Surgery Fellow  
 10 - Trauma Surgery Fellow  
 11- Other

Note: ApproxWtKg variable was not validated.

The variables InjuryMechanism and RecodedMOI answer the same question. The injury mechanism for each subject was reviewed if it was “Other Mechanism” and possibly re-classified by the study investigator to ensure that it was classified accurately. Therefore, both variables, before (InjuryMechanism) and after (RecodedMOI) the study investigator’s review, are included.

## Intra-abdominal Injury Annotated PUD eCRF

form1 (2 of 9)

This variable indicates whether mechanisms of injury described in the open text field OtherMechanism were considered high risk or not high risk according to the study principle investigator.

### ED Visit

#### I. History of Injury

Injury mechanism (select only one mechanism)

InjuryMechanism #

RecodedMOI #

ding

If in MVC (select all that apply)

MVCCollision #

Add record

Delete record

form1\_mvccollision

#### Injury Mechanism Specifics

Was the patient restrained?

Type of restraint system

Was patient run-over by moving vehicle?

Did handlebars strike the abdomen?

Other mechanism (describe):

Comment

InjMechSpecs \$30

PatientRestrained #

RestraintSystem #

PatientRunOver #

HandlebarsAbd #

DV2179G

1 - Yes

2 - No

3 - Unknown

4 - Physician did not answer

OtherMechanism \$255

OtherMOIHighRisk #

GenComment \$255

DV6419G

- 1 - lap and shoulder harness
- 2 - lap belt only
- 3 - shoulder harness only
- 4 - infant car seat
- 5 - booster car seat
- 6 - unknown restraint system
- 7 - Physician did not answer

DV6543G

- 1 - Ejected from auto
- 2 - Rollover
- 3 - Death in same collision
- 4 - None of these
- 5 - Unknown
- 6 - Physician did not answer

DV6542G

- 1 - Occupant in Motor Vehicle Collision (MVC)
- 2 - Fall from an elevation
- 3 - Fall down stairs
- 4 - Pedestrian or bicyclist struck by moving vehicle
- 5 - Bike collision or fall from bike while riding
- 6 - Motorcycle/ATV/Motorized Scooter collision
- 7 - Object struck abdomen
- 8 - Unknown mechanism
- 9 - Other mechanism
- 10 - Physician did not answer

[2 - Fall from an elevation]

- 1 - < 3 ft.
- 2 - 3 - 10 ft.
- 3 - > 10 ft.
- 4 - Unknown
- 5 - Physician did not answer

[3 - Fall down stairs]

- 1 - 5 or less
- 2 - 6-15
- 3 - > 15
- 4 - Unknown
- 5 - Physician did not answer

[1 - Occupant in Motor Vehicle Collision (MVC)]

- 1 - < 20 mph
- 2 - 20 - 40 mph
- 3 - > 40 mph
- 4 - Speed Unknown
- 5 - Physician did not answer

[4 - Pedestrian or bicyclist struck by moving vehicle]

- 1 - < 5 mph
- 2 - 5 - 20 mph
- 3 - > 20 mph
- 4 - Speed Unknown
- 5 - Physician did not answer

[7 - Object struck abdomen]

- 1 - Intentional
- 2 - Accidental
- 3 - Unknown intentionality
- 4 - Physician did not answer

# Intra-abdominal Injury Annotated PUD eCRF

form1 (3 of 9)

ED Visit

## II. Historical examination (complaints)

1. Is the patient preverbal (unable to communicate because of limited verbal skills)

Preverbal #

2. Does patient complain of abdominal pain?

DV2767G

- 1 - Mild (barely noticeable)
- 2 - Moderate
- 3 - Severe (intense)
- 4 - Unknown
- 5 - Physician did not answer

AbdomenPain #

2a. Severity of historical abdominal pain

AbdPainSeverity #

2b. Location of abdominal pain

AbdPainLoc #

3. Vomiting/Retching

VomitWretch #

4. Does patient complain of shortness of breath/difficulty breathing

ShortBreath #

5. Does the patient have a distracting painful injury?

DistractingPain #

DV2480G

- 1 - Yes
- 2 - No
- 3 - Physician did not answer

DV1577G

- 1 - Diffuse
- 2 - Localized
- 3 - Unknown
- 4 - Physician did not answer

DV6147G

- 1 - Yes
- 2 - No
- 3 - Unable to Assess
- 4 - Physician did not answer

DV2179G

- 1 - Yes
- 2 - No
- 3 - Unknown
- 4 - Physician did not answer



# Intra-abdominal Injury Annotated PUD eCRF

form1 (4 of 9)

## ED Visit

### III. Mental Status

1. Was the patient intubated?
2. Was the patient pharmacologically paralyzed?
3. Was the patient pharmacologically sedated?
4. Is there a clinical suspicion for alcohol or drug intoxication?

CurrIntubated #

PharmaParalyzed #

PharmaSedated #

AlcDrgSuspicion #

DV2480G

- 1 - Yes
- 2 - No
- 3 - Physician did not answer

### 5. Glasgow Coma Score

Eye

Verbal

Motor

Total GCS Score

5a. Aggregate Glasgow Coma Score

GCSEye #

GCSVerbal #

GCSMotor #

GCSScore #

AggregateGCS #

DV6558G

- 1 - 4:Spontaneous
- 2 - 3:Verbal
- 3 - 2:Pain
- 4 - 1:None

DV6559G

- 1 - 5:Oriented - coos/babbles
- 2 - 4:Confused - irritable/cries
- 3- 3:Inappropriate words - cries to pain
- 4 - 2:Incomprehensible sounds – moans
- 5 - 1:None

DV6560G

- 1 - 6:Follow commands
- 2 - 5:Localizes pain
- 3 - 4:Withdraws to pain
- 4 - 3:Abnormal flexure posturing
- 5 - 2:Abnormal extension posturing
- 6 - 1:None

# Intra-abdominal Injury Annotated PUD eCRF

form1 (5 of 9)

DV6575G

- 1 - Yes
- 2 - Unknown
- 3 - Not Documented

ED Visit

## IV. Physical Examination

1. Was the initial Systolic Blood Pressure in the ED known?

InitSysBP #

1a. Initial Systolic Blood Pressure

InitSysBPRange #

2. Was the initial Respiratory Rate in the ED known?

InitResp #

2a. Initial Respiratory Rate

InitRespRange #

3. Was the initial Heart Rate in the ED known?

HRDocumented #

3a. Initial Heart Rate (beats/min)

InitHeartRate #

DV400G

- 1 - Yes
- 2 - Intubated/BVM
- 3 - Unknown
- 4 - Not documented

## Thoracic Examination

4. Evidence of thoracic trauma?

ThoracicTrauma #

4a.

Select all thoracic abnormalities

ThorAbnormality #

Add record

Delete record

form1\_thoracicabnormalities

DV6294G

- 1 - erythema
- 2 - abrasion
- 3 - ecchymoses
- 4 - subcutaneous air
- 5 - laceration
- 6 - other
- 7 - Physician did not answer

DV2480G

- 1 - Yes
- 2 - No
- 3 - Physician did not answer

# Intra-abdominal Injury Annotated PUD eCRF

form1 (6 of 9)

## ED Visit

4b. Were abnormalities primarily

5. Thoracic tenderness

6. Left costal tenderness?

7. Right costal tenderness?

8. Does patient have absent/decreased breath sounds?

9. Does patient have abnormal chest auscultation findings?

ThorAbnLoc #

ThoracicTender #

LtCostalTender #

RtCostalTender #

DecrBreathSound #

AbnChestAusc #

DV5325G

- 1 - Anterior chest
- 2 - Posterior chest
- 3 - Both
- 4 - Physician did not answer

DV6147G

- 1 - Yes
- 2 - No
- 3 - Unable to Assess
- 4 - Physician did not answer

DV2179G

- 1 - Yes
- 2 - No
- 3 - Unknown
- 4 - Physician did not answer

## Abdominal Examination

10. Evidence of abdominal wall trauma?

AbdTrauma #

10a.

Select all abdomen abnormalities

AbdAbnormality #

Add record

Delete record

form1\_abdabnormalities

DV2200G

- 1 - erythema
- 2 - abrasion
- 3 - ecchymoses
- 4 - laceration
- 5 - other
- 6 - Physician did not answer

# Intra-abdominal Injury Annotated PUD eCRF

form1 (7 of 9)

## ED Visit

11. Is a seat belt sign present?

SeatBeltSign #

DV2480G

- 1 - Yes
- 2 - No
- 3 - Physician did not answer

12. Does the patient have abdominal distention?

AbdDistention #

DV2179G

- 1 - Yes
- 2 - No
- 3 - Unknown
- 4 - Physician did not answer

13. Are bowel sounds absent?

BowelSounds #

14. Does patient have abdominal tenderness?

AbdomenTender #

14a. Degree of abdominal tenderness

AbdTenderDegree #

14b. Location of abdominal tenderness

AbdTenderLoc #

DV1452G

- 1 - Yes
- 2 - No
- 3 - Did not listen
- 4 - Physician did not answer

15. Does the patient have peritoneal irritation?

PeritonIrrit #

16. Did patient have blood on rectal examination

RectalBlood #

DV4686G

- 1 - Mild
- 2 - Moderate
- 3 - Severe
- 4 - Physician did not answer

## Flank & Pelvic Examination

17. Does the patient have flank tenderness?

FlankTender #

18. Does the patient have pelvic bone tenderness?

PelvicTender #

18a.

Pelvic locations that are tender

PelvTenderLoc #

form1\_pelvtenderloc

Add record

Delete record

DV6147G

- 1 - Yes
- 2 - No
- 3 - Unable to Assess
- 4 - Physician did not answer

DV414G

- 1 - anterior superior iliac crests
- 2 - superior pubis
- 3 - inferior pubis
- 4 - SI joints;
- 5 - unknown;
- 6 - Physician did not answer

DV1377G

- 1 - Yes
- 2 - No
- 3 - Rectal exam not performed
- 4 - Physician did not answer

DV6626G

- 1 - diffuse
- 2 - above the umbilicus
- 3 - below the umbilicus
- 4 - peri-umbilical
- 5 - unknown
- 6 - Physician did not answer

# Intra-abdominal Injury Annotated PUD eCRF

form1 (8 of 9)

## ED Visit

19. Is the pelvis unstable?

PelvisUnstable #

DV2179G

- 1 - Yes
- 2 - No
- 3 - Unknown
- 4 - Physician did not answer

DV1925G

- 1 - Yes
- 2 - No
- 3 - Unsure
- 4 - Physician did not answer

## Other Exam Findings

20. Does the patient have an injury that will require non-abdominal surgery?

NonAbdSurgery #

21. Was a urine dipstick obtained?

Value not provided

21a. Results of dipstick

Value not provided

## Suspicion of Intra-abdominal Injury

22. Clinical suspicion for the presence of IAI identified on CT

IAISuspicion #

23. Clinical suspicion for IAI in need of acute intervention

IAIAcuteInterv #

24. Were you aware of any lab results?

LabResultAware #

DV2480G

- 1 - Yes
- 2 - No
- 3 - Physician did not answer

DV1975G

- 1 - <1%
- 2 - 1-5%
- 3 - 6-10%
- 4 - 11-50%
- 5 - >50%
- 6 - Physician did not answer

# Intra-abdominal Injury Annotated PUD eCRF

form1 (9 of 9)

## ED Visit

### Abdominal Imaging

25. Was an abdominal ultrasound obtained?

AbdUltrasound #

25a. Was the data sheet completed before knowledge of the abdominal ultrasound results?

KnowAbUltraRes #

25b. Was hemoperitoneum seen on ultrasonography

Value not provided

26. Was an abdominal CT obtained?

AbdCTScan #

26a. If abdominal CT performed, was the data sheet completed before knowledge of the results?

KnowAbCTRes #

27. What factors were used in making the decision to obtain an abdominal CT?

All factors used for obtaining abdominal CT

Other (please describe)

AbdCTIndic #

OtherDescrip \$255

Add record

Delete record

form1\_indicforabdct

28. Was patient hospitalized?

PtHosp #

DV2179G

- 1 - Yes
- 2 - No
- 3 - Unknown
- 4 - Physician did not answer

DV5417G

- 1 - Young age
- 2 - Severe mechanism of injury
- 3 - Lower rib injury
- 4 - Hemodynamic instability
- 5 - Decreased mental status
- 6 - Flank tenderness
- 7 - Femur fracture
- 8 - Abnormal abdominal examination
- 9 - Trauma surgery request
- 10 - Abdominal clearance prior to non-abdominal surgery
- 11 - Low hematocrit
- 12 - Declining/drop in serial hematocrit measurements
- 13 - Elevated AST or ALT
- 14 - Elevated amylase/lipase
- 15 - Microscopic hematuria
- 16 - Gross hematuria
- 17 - Other abnormal lab value
- 18 - Other
- 19 - Physician did not answer

DV2480G

- 1 - Yes
- 2 - No
- 3 - Physician did not answer

Calculated / derived variable(s) included in the form1 dataset:

Variable	Label	Type	Format	Algorithm / Notes
RefuseFU	Parent/guardian refused telephone or mail follow-up at time of ED visit	#	REFUSEFU	=1 if follow-up refused, =2 if follow-up not refused, =3 if patient was admitted to hospital or died in the ED
			REFUSEFU	
			1 - Yes	
			2 - No	
			3 - Not applicable per study protocol	

# Intra-abdominal Injury Annotated PUD eCRF

form2 (1 of 8)

## ED Visit

### ED Physician Information

Name of Physician

Value not provided

Certification of physician completing form or providing oversight

Certification #

Specify other certification

Value not provided

### Ed Evaluation

ED Evaluation Date

Value not provided

Time of Evaluation known?

EvalTmKnown #

DV618G

1 - Known

2 - Unknown

ED Evaluation Time

EDEvalTime \$5

DV5427G

1 - Emergency Medicine Faculty

2 - Pediatric Faculty

3 - Pediatric Emergency Medicine Faculty

4 - General/Trauma Surgery Faculty

5 - Pediatric Surgery Faculty

6 - Internal Medicine Faculty

7 - Family Practice Faculty

8 - Pediatric Emergency Medicine Fellow

9 - Pediatric Surgery Fellow

10 - Trauma Surgery Fellow

11 - Other

# Intra-abdominal Injury Annotated PUD eCRF

form2 (2of 8)

## ED Visit

### I. History of Injury

Injury mechanism (select only one mechanism)

InjuryMechanism #

If in MVC (select all that apply)

Value not provided

Add record

Delete record

Injury Mechanism Specifics

Was the patient restrained?

Type of restraint system

Was patient run-over by moving vehicle?

Did handlebars strike the abdomen?

Other mechanism (describe):

Comment

InjMechSpecs \$30

PatientRestrained #

RestraintSystem #

PatientRunOver #

HandlebarsAbd #

Value not provided

GenComment \$255

DV2179G

- 1 - Yes
- 2 - No
- 3 - Unknown
- 4 - Physician did not answer

DV6419G

- 1 - lap and shoulder harness
- 2 - lap belt only
- 3 - shoulder harness only
- 4 - infant car seat
- 5 - booster car seat
- 6 - unknown restraint system
- 7 - Physician did not answer

DV6542G

- 1 - Occupant in Motor Vehicle Collision (MVC)
- 2 - Fall from an elevation
- 3 - Fall down stairs
- 4 - Pedestrian or bicyclist struck by moving vehicle
- 5 - Bike collision or fall from bike while riding
- 6 - Motorcycle/ATV/Motorized Scooter collision
- 7 - Object struck abdomen
- 8 - Unknown mechanism
- 9 - Other mechanism
- 10 - Physician did not answer

[1 - Occupant in Motor Vehicle Collision (MVC)]

- 1 - < 20 mph
- 2 - 20 - 40 mph
- 3 - > 40 mph
- 4 - Speed Unknown
- 5 - Physician did not answer

[4 - Pedestrian or bicyclist struck by moving vehicle]

- 1 - < 5 mph
- 2 - 5 - 20 mph
- 3 - > 20 mph
- 4 - Speed Unknown
- 5 - Physician did not answer

[2 - Fall from an elevation]

- 1 - < 3 ft.
- 2 - 3 - 10 ft.
- 3 - > 10 ft.
- 4 - Unknown
- 5 - Physician did not answer

[3 - Fall down stairs]

- 1 - 5 or less
- 2 - 6-15
- 3 - > 15
- 4 - Unknown
- 5 - Physician did not

[7 - Object struck abdomen]

- 1 - Intentional
- 2 - Accidental
- 3 - Unknown intentionality
- 4 - Physician did not answer



## Intra-abdominal Injury Annotated PUD eCRF

form2 (3 of 8)

DV2480G

- 1 - Yes
- 2 - No
- 3 - Physician did not answer

ED Visit

### II. Historical examination (complaints)

1. Is the patient preverbal (unable to communicate because of limited verbal skills)

Preverbal #

2. Does patient complain of abdominal pain?

DV2767G

- 1 - Mild (barely noticeable);
- 2 - Moderate
- 3 - Severe (intense)
- 4 - Unknown
- 5 - Physician did not answer

AbdomenPain #

2a. Severity of historical abdominal pain

AbdPainSeverity #

2b. Location of abdominal pain

AbdPainLoc #

3. Vomiting/Retching

VomitWretch #

4. Does patient complain of shortness of breath/difficulty breathing

ShortBreath #

5. Does the patient have a distracting painful injury?

DistractingPain #

DV1577G

- 1 - Diffuse
- 2 - Localized
- 3 - Unknown
- 4 - Physician did not answer

DV6147G

- 1 - Yes
- 2 - No
- 3 - Unable to Assess
- 4 - Physician did not answer

DV2179G

- 1 - Yes
- 2 - No
- 3 - Unknown
- 4 - Physician did not answer

# Intra-abdominal Injury Annotated PUD eCRF

form2 (4 of 8)

ED Visit

## III. Mental Status

1. Was the patient intubated?

CurrIntubated #

2. Was the patient pharmacologically paralyzed?

PharmaParalyzed #

3. Was the patient pharmacologically sedated?

PharmaSedated #

4. Is there a clinical suspicion for alcohol or drug intoxication?

AlcDrgSuspicion #

DV2480G

- 1 - Yes
- 2 - No
- 3 - Physician did not answer

5. Glasgow Coma Score

Eye

GCSEye #

DV6558G

- 1 - 4:Spontaneous
- 2 - 3:Verbal
- 3 - 2:Pain
- 4 - 1:None

Verbal

GCSVerbal #

Motor

GCSMotor #

Total GCS Score

GCSScore #

5a. Aggregate Glasgow Coma Score

AggregateGCS #

DV6559G

- 1 - 5:Oriented - coos/babbles
- 2 - 4:Confused - irritable/cries
- 3 - 3:Inappropriate words - cries to pain
- 4 - 2:Incomprehensible sounds – moans
- 5 - 1:None

DV6560G

- 1 - 6:Follow commands
- 2 - 5:Localizes pain
- 3 - 4:Withdraws to pain
- 4 - 3:Abnormal flexure posturing
- 5 - 2:Abnormal extension posturing
- 6 - 1:None

Intra-abdominal Injury Annotated PUD eCRF

form2 (5 of 8)

ED Visit

**IV. Physical Examination**

**Thoracic Examination**

**1. Evidence of thoracic trauma?**

ThoracicTrauma #

DV2480G

1 - Yes

2 - No

3 - Physician did not answer

**1a.**

**Select all thoracic abnormalities**

Value not provided

Add record

Delete record

**1b. Were abnormalities primarily**

**2. Thoracic tenderness**

**3. Left costal tenderness?**

**4. Right costal tenderness?**

**5. Does patient have absent/decreased breath sounds?**

**6. Does patient have abnormal chest auscultation findings?**

ThorAbnLoc #

ThoracicTender #

LtCostalTender #

RtCostalTender #

DecrBreathSound #

AbnChestAusc #

DV5325G

1 - Anterior chest

2 - Posterior chest

3 - Both

4 - Physician did not answer

DV6147G

1 - Yes

2 - No

3 - Unable to Assess

4 - Physician did not answer

DV2179G

1 - Yes

2 - No

3 - Unknown

4 - Physician did not answer

# Intra-abdominal Injury Annotated PUD eCRF

form2 (6 of 8)

ED Visit

## Abdominal Examination

7. Evidence of abdominal wall trauma?

AbdTrauma #

7a.

Select all abdomen abnormalities

Value not provided

Add record

Delete record

8. Is a seat belt sign present?

9. Does the patient have abdominal distention?

10. Are bowel sounds absent?

11. Does patient have abdominal tenderness?

11a. Degree of abdominal tenderness

11b. Location of abdominal tenderness

12. Does the patient have peritoneal irritation?

SeatBeltSign #

AbdDistention #

BowelSounds #

AbdomenTender #

AbdTenderDegree #

AbdTenderLoc #

PeritonIrrit #

DV2179G

- 1 - Yes
- 2 - No
- 3 - Unknown
- 4 - Physician did not answer

DV2480G

- 1 - Yes
- 2 - No
- 3 - Physician did not answer

DV1452G

- 1 - Yes
- 2 - No
- 3 - Did not listen
- 4 - Physician did not answer

DV4686G

- 1 - Mild
- 2 - Moderate
- 3 - Severe
- 4 - Physician did not answer

DV6147G

- 1 - Yes
- 2 - No
- 3 - Unable to Assess
- 4 - Physician did not answer

DV6626G

- 1 - diffuse
- 2 - above the umbilicus
- 3 - below the umbilicus
- 4 - peri-umbilical
- 5 - unknown
- 6 - Physician did not answer

## Intra-abdominal Injury Annotated PUD eCRF

form2 (7 of 8)

### ED Visit

#### Flank & Pelvic Examination

13. Does the patient have flank tenderness?

FlankTender #

14. Does the patient have pelvic bone tenderness?

PelvicTender #

14a.

Pelvic locations that are tender

Value not provided

Add record

Delete record

15. Is the pelvis unstable?

PelvisUnstable #

DV6147G

- 1 - Yes
- 2 - No
- 3 - Unable to Assess
- 4 - Physician did not answer

DV2179G

- 1 - Yes
- 2 - No
- 3 - Unknown
- 4 - Physician did not answer

Intra-abdominal Injury Annotated PUD eCRF

form2 (8 of 8)

ED Visit

Other Exam Findings

16. Does the patient have an injury that will require non-abdominal surgery?

NonAbdSurgery #

DV1925G

- 1 - Yes
- 2 - No
- 3 - Unsure
- 4 - Physician did not answer

Suspicion of Intra-abdominal Injury

17. Clinical suspicion for the presence of IAI identified on CT

IAISuspicion #

18. Clinical suspicion for IAI in need of acute intervention

IAIAcuteInterv #

19. Were you aware of any lab results?

LabResultAware #

20. Was an abdominal CT obtained?

AbdCTScan #

20a. If abdominal CT performed, was the data sheet completed before knowledge of the results?

KnowAbCTRes #

DV2480G

- 1 - Yes
- 2 - No
- 3 - Physician did not answer

DV2179G

- 1 - Yes
- 2 - No
- 3 - Unknown
- 4 - Physician did not answer

DV1975G

- 1 - <1%
- 2 - 1-5%
- 3 - 6-10%
- 4 - 11-50%
- 5 - >50%
- 6 - Physician did not answer

# Intra-abdominal Injury Annotated PUD eCRF

form4a (1 of 4)

## Imaging Data

### Abdominal/Pelvic CT

Did patient undergo an abdominal/pelvic CT?

AbdCTScan1 #

DV6032G

1 - Yes  
2 - No

### Abdominal CT Imaging

Date of Abdominal CT	Time of Abdominal CT	Location of CT	Intravenous contrast administered?	Oral contrast administered?	CT findings	Report upload
AbdCTDay #	AbdCTTime \$5		IVContrast #		CTResults #	Value not provided
		CTLocation #		OralContrast #		Display Data... Remove Data...

Add record Delete record

form4a\_abdct

DV1314G

1 - ED  
2 - Inpatient  
3 - Outpatient  
4 - Unknown

DV735G

1 - Yes  
2 - No  
3 - Unknown

DV3345G

1 - Normal  
2 - Abnormal  
3 - No interpretation from any known source

# Intra-abdominal Injury Annotated PUD eCRF

form4a (2 of 4)

## Imaging Data

### Abdomen Ultrasound

Did patient undergo an abdominal ultrasound?

AbdUltrasound1 #

DV6032G  
1 - Yes  
2 - No

### Abdominal Ultrasound Imaging

Date of Abdominal Ultrasound	Time of Abdominal Ultrasound	Location of Ultrasound	Type of Ultrasound	Ultrasound findings	Report Upload
AbdUltrasoundDay #			UltrasoundType #	UltrasoundRes #	Value not provided
					Display Data... Remove Data...
<div> <div>Add record</div> <div>Delete record</div> <div>UltrasoundLoc #</div> </div>					

AbdUltrasoundTm \$5

DV1314G  
1 - ED  
2 - Inpatient  
3 - Outpatient  
4 - Unknown

DV292G  
1 - FAST  
2 - Full abdominal scan  
3 - Unknown

DV3345G  
1 - Normal  
2 - Abnormal  
3 - No interpretation from any known source

form4a\_us

Report Upload

Value not provided

Display Data...

Remove Data...

Add record

Delete record

UltrasoundLoc #

DV1314G  
1 - ED  
2 - Inpatient  
3 - Outpatient  
4 - Unknown

DV292G  
1 - FAST  
2 - Full abdominal scan  
3 - Unknown

DV3345G  
1 - Normal  
2 - Abnormal  
3 - No interpretation from any known source



# Intra-abdominal Injury Annotated PUD eCRF

form4a (3 of 4)

## Imaging Data

### Other Abdominal Imaging

Did patient undergo other abdominal radiographic studies?

OthAbdImages #

DV6032G

1 - Yes

2 - No

### Other Abdominal Imaging studies

Type  
of  
abdominal  
imaging  
study

Date

Call Time

Report Upload

Value not provided

AbdImageType #

ProcDay #

Display Data...

Remove Data...

Add record

Delete record

CallTime \$5

form4a\_abdothor

DV3645G

- 1 - Abdominal angiography
- 2 - Pelvic angiography
- 3 - Upper gastrointestinal series
- 4 - Abdominal MRI
- 5 - Cystogram

# Intra-abdominal Injury Annotated PUD eCRF

form4a (4 of 4)

DV6032G  
1 - Yes  
2 - No

## Imaging Data

### Plain Radiographs of the Chest and Pelvis

Did the patient have a plain chest radiograph in the ED?

ChestCXR #

Did initial ED chest radiograph show evidence of traumatic injury?

CHCXRFindings #

DV3685G  
1 - No traumatic findings  
2 - Traumatic findings identified

### Traumatic Injuries

Select  
traumatic  
injuries  
present

Other  
injury

TraumaticInj #

OtherInjury \$255

Add record

Delete record

form4a\_traumaticinj

Did the patient have a plain pelvic radiograph?

PelvicXR #

Did initial ED pelvis radiograph show evidence of bony fracture?

PelXRFindings #

DV6032G  
1 - Yes  
2 - No

DV5089G

- 1 - Pneumothorax
- 2 - Hemothorax
- 3 - Rib fracture
- 4 - Pulmonary contusion
- 5 - Pneumomediastinum
- 6 - Pneumopericardium
- 7 - Diaphragm injury
- 8 - Other

# Intra-abdominal Injury Annotated PUD eCRF

form4bct (1 of 2)

DV6726G

1 - 1  
2 - 2  
3 - 3  
4 - 4  
5 - 5  
6 - 6  
7 - 7  
8 - 8  
9 - 9  
10 - 10

Unscheduled

**Subheader ID**

CTFindingsID #

**Abdominal CT #**

Form4BCTNumber #

**Abdominal CT Date**

AbdCTDay #

**Abdominal CT Time**

AbdCTTm1 \$5

**Was this CT done after laparotomy or laparoscopy?**

CTAfterLap #

DV6032G

1 - Yes  
2 - No

**CT Findings**

**Injury  
Organ  
System**

**Organ  
Injury  
Specifics**

**Describe the "Other"**

form4bct\_ctfindings

InjOrganSystem #

OrgInjurySpec \$255

InjDescription \$255

Add record

Delete record

**Overall Summary of this CT**

**Is this a subsequent CT for this patient?**

Form4B2ndCT #

DV6032G

1 - Yes  
2 - No

**Abdominal injuries have:**

Form4bAbdInj #

**Intraperitoneal fluid has:**

Form4bIntrFluid #

**Is this abdominal CT positive for IAI?**

IAICTPositive #

**Is this abdominal CT positive for abdominal trauma?**

AbdCTTrauma #

DV5985G

1 - Improved  
2 - Remained the same  
3 - Worsened  
4 - Unclear  
5 - Not Applicable

DV5529G

1 - Increased  
2 - Remained the same  
3 - Decreased  
4 - Unclear  
5 - Not Applicable

DV6032G

1 - Yes  
2 - No

DV6832G

1 - Yes  
2 - No  
3 - Equivocal

ORGAN

1 - Splenic Injury	9 - Intra-abdominal Vascular Injury
2 - Liver Injury	10 - Fascial Defect
3 - Gallbladder Injury	11 - Intraperitoneal Fluid
4 - Pancreatic Injury	12 - Retroperitoneal Injury
5 - Renal Injury	13 - Thoracic Injury
6 - Urinary Bladder Injury	14 - Pelvic Fracture
7 - Gastrointestinal Injury	15 - Vertebral Injury
8 - Adrenal Injury	16 - Other Injury Not Specified

# Intra-abdominal Injury Annotated PUD eCRF

form4bct (2 of 2)

## [1 - Splenic Injury]

1 - Laceration  
2 - Hematoma  
3 - Contusion  
4 - Rupture  
5 - Traumatic infarction  
6 - Contrast extravasation  
8 - Dictation unclear  
9 - Possible  
10 - Probable  
66 - Other

## [2 - Liver Injury]

1 - Laceration  
2 - Hematoma  
3 - Contusion  
4 - Traumatic infarction  
5 - Contrast extravasation  
6 - Hepatic avulsion  
7 - Biloma  
9 - Dictation unclear  
10 - Possible  
11 - Probable  
66 - Other

## [3 - Gallbladder Injury]

1 - Avulsion  
2 - Contusion  
4 - Dictation unclear  
5 - Possible  
6 - Probable  
66 - Other

## [4 - Pancreatic Injury]

1 - Laceration  
2 - Ductal injury  
3 - Contusion  
5 - Dictation unclear  
6 - Possible  
7 - Probable  
66 - Other

## [5 - Renal Injury]

1 - Laceration  
2 - Hematoma  
3 - Contusion  
4 - Devascularization  
6 - Dictation unclear  
7 - Possible  
8 - Probable  
66 - Other

## [6 - Urinary Bladder Injury]

1 - Hematoma  
2 - Intraperitoneal rupture  
3 - Extraperitoneal rupture  
5 - Dictation unclear  
6 - Possible  
7 - Probable  
66 - Other

## [7 - Gastrointestinal Injury]

1 - Free Air  
2 - Bowel wall edema/thickening  
3 - Bowel wall hematoma  
4 - Bowel wall contusion  
5 - Mesenteric streaking  
6 - Mesenteric hematoma  
7 - Extravasation of contrast from mesentery  
9 - Dictation unclear  
10 - Possible  
11 - Probable  
66 - Other

## [8 - Adrenal Injury]

1 - Hemorrhage  
2 - Dictation unclear  
4 - Possible  
5 - Probable  
66 - Other

## [9 - Intra-abdominal Vascular Injury]

1 - Dictation unclear  
2 - Possible  
3 - Probable  
66 - Describe

## [10 - Fascial Defect]

1 - Dictation unclear  
2 - Possible  
3 - Probable  
66 - Describe

## [11 - Intraperitoneal Fluid]

1 - Right upper quadrant  
2 - Left upper quadrant  
3 - Right paracolic gutter  
4 - Left paracolic gutter  
5 - Pelvis  
6 - Around the pancreas/duodenum  
8 - Dictation unclear  
9 - Possible  
10 - Probable  
66 - Other

## [12 - Retroperitoneal Injury]

1 - Dictation unclear  
2 - Possible  
3 - Probable  
66 - Describe

## [13 - Thoracic Injury]

1 - Pulmonary contusion  
2 - Pneumothorax  
3 - Hemothorax  
4 - Rib fracture  
5 - Sternal fracture  
6 - Aortic injury  
7 - Tracheal bronchial disruption  
8 - Cardiac contusion  
9 - Pneumopericardium  
10 - Diaphragm injury  
11 - Hemopericardium  
13 - Dictation unclear  
14 - Possible  
15 - Probable  
66 - Other

## [16 - Other Injury Not Specified]

66 - Other

## [14 - Pelvic Fracture]

1 - Pubis  
2 - Ilium  
3 - Sacrum  
4 - Ischium  
5 - Acetabulum  
6 - Arterial bleeding from a pelvic fracture  
8 - Dictation unclear  
9 - Possible  
10 - Probable  
66 - Other

## [15 - Vertebral Injury]

1 - T10  
2 - T11  
3 - T12  
4 - L1  
5 - L2  
6 - L3  
7 - L4  
8 - L5  
9 - Transverse process  
10 - Vertebral Body  
11 - Dictation unclear  
66 - Other

# Intra-abdominal Injury Annotated PUD eCRF

form4bus (1 of 1)

## Unscheduled

### Abdominal Ultrasound with traumatic injuries

Subheader ID

USID #

DV6727G

Ultrasound #

Form4BUSNumber #

1 - 1

2 - 2

3 - 3

Abdominal Ultrasound Date

AbdUSDay #

Abdominal Ultrasound Time

AbdUSTm \$5

Location of Ultrasound

UltrasoundLoc #

DV1314G

1 - ED

2 - Inpatient

3 - Outpatient

4 - Unknown

Was this US done after laparotomy or laparoscopy?

AbdUSAAfterLap #

### Location of Intraperitoneal fluid

Location  
of  
Intraperitoneal  
fluid

DV1420G

1 - Morrison's pouch (right upper quadrant) 6 - No free fluid

2 - Left upper quadrant 7 - Possible

3 - Right paracolic gutter 8 - Probable

4 - Left paracolic gutter 9 - Unclear

5 - Suprapubic region

IPFluidLoc #

form4bus\_ipfluidloc

Add record

Delete record

### Solid Organ Injury identified on ultrasonography

Was a complete abdominal ultrasound obtained?

CompleteUSObt #

DV6032G

1 - Yes

2 - No

If a complete abdominal ultrasound obtained, was a solid organ injury identified?

OrganInjOnUS #

### Specify injuries identified

Specify  
the  
injuries  
identified

Other description

IAISpecInjuries #

OtherDescr \$255

form4bus\_iaiorsansinj

Add record

Delete record

DV178G

1 - Spleen

2 - Liver

3 - Kidney

4 - Gastrointestinal tract

5 - Other

## Intra-abdominal Injury Annotated PUD eCRF

form4bother\_abdangio (1 of 1)

### Unscheduled

#### Abdominal Angiography with traumatic injuries

Was an Abdominal Angiography obtained?

Subheader ID

Abdominal Angiography Date

Abdominal Angiography Time

Was this abdominal angiography done after laparotomy or laparoscopy?

Did abdominal angiography demonstrate IAI?

Did radiologist embolize a bleeding vessel with angiography?

List the vessel embolized

Text field

AbdAngioObtain #

OtherID #

AbdAngioDay #

AbdAngioTm \$5

AbdAngioAfterLap #

AbdAngioShowIAI #

AbdAngioVessel #

DV6032G

1 - Yes

2 - No

AbdAngioList \$255

AbdAngioText \$1024

#### Select all organs injured

Select  
all  
organs  
injured

AbdAngioOrgans #

DV583G

1 - Spleen

2 - Liver

3 - Kidney

4 - GI (mesentery)

5 - Other vascular structure

6 - Dictation unclear

Add record

Delete record

# Intra-abdominal Injury Annotated PUD eCRF

form4bother\_pelangio (1 of 1)

## Unscheduled

### Pelvic Angiography with traumatic injuries

Was a Pelvic Angiography obtained?

PelAngioObtain #

Subheader ID

OtherID #

Pelvic Angiography Date

PelAngioDay #

Pelvic Angiography Time

PelAngioTm \$5

DV6032G

1 - Yes

2 - No

Was this pelvic angiography done after laparotomy or laparoscopy?

PelAngioAfterLap #

Did pelvic angiography demonstrate a bleeding vessel?

PelAngioShow #

Did radiologist embolize a bleeding vessel with angiography

PelAngioVessel #

List the vessel embolized

PelAngioList \$255

Text field

PelAngioText \$1024

+

## Intra-abdominal Injury Annotated PUD eCRF

form4bother\_uppergi (1 of 2)

### Unscheduled

#### Upper Gastrointestinal Series

Was an Upper Gastrointestinal Series obtained?

UpperGIObtain #

Subheader ID

OtherID #

Upper GI Series Date

UpperGIDay #

Upper GI Series Time

UpperGITm \$5

Was this upper GI series done after laparotomy or laparoscopy?

UpperGIAfterLap #

Did upper GI series demonstrate an IAI?

UpperGIShow #

DV6032G  
1 – Yes  
2 - No

Text field

UpperGIText \$1024



# Intra-abdominal Injury Annotated PUD eCRF

form4bother\_uppergi (2 of 2)

Unscheduled

## Upper GI organs injured

Select all organs injured	Size of hematoma in cm if documented	Other GI organ (List type)
UpperGIOrgans #	GISzHematoma #	GIOthOrgType \$1024

Add record

Delete record

DV657G  
1 – Duodenum  
2 - Other

## Intra-abdominal Injury Annotated PUD eCRF

form4bother\_abdmri (1 of 1)

Unscheduled

### Abdominal MRI

Was an Abdominal MRI obtained?

AbdMRIObtain #

Subheader ID

OtherID #

Abdominal MRI Date

AbdMRIDay #

Abdominal MRI Time

AbdMRITm \$5

Was this abdominal MRI done after laparotomy or laparoscopy?

AbdMRIAfterLap #

Did abdominal MRI demonstrate an IAI?

AbdMRIShow #

DV6032G  
1 - Yes  
2 - No

### Abdominal Organs Injured

Select  
all  
organs  
injured

AbdOrgans #

Add record

Delete record

DV720G  
1 – Spleen  
2 – Liver  
3 – Kidney  
4 - GI (mesentery)  
5 – Adrenal  
6 – Pancreas  
7 – Bladder  
8 - Fascial defect  
9 - Dictation unclear

# Intra-abdominal Injury Annotated PUD eCRF

form4bother\_bladder (1 of 1)

Unscheduled

## Cystogram

Was a cystogram obtained?

Subheader ID

Cystogram Date

Cystogram Time

Was this cystogram done after laparotomy or laparoscopy?

Did cystogram demonstrate an injury to the bladder?

CystogramObtain #

OtherID #

CystogramIDay #

CystogramITm \$5

CystoAfterLap #

CystogramShow #

DV6032G  
1 - Yes  
2 - No

## Bladder Injuries

Select  
all  
organs  
injured

Other  
bladder  
injury  
description

BladdOrgans #

OthBladderInj \$1024

Add record

Delete record

DV834G

- 1 - Intraperitoneal bladder injury
- 2 - Extraperitoneal bladder injury
- 3 - Bladder hematoma
- 4 - Both intraperitoneal and extraperitoneal
- 5 - Other bladder injury

# Intra-abdominal Injury Annotated PUD eCRF

form5 (1 of 5)

## Laboratory Data

### Laboratory Results

Were any of the lab tests listed ordered w/in 7 days of ED Triage?

LabsObtained #

DV6032G

1 - Yes

2 - No

### Hematocrit

Hematocrit lab obtained?

HematocritColl #

### Hematocrit

Date	Time	Hematocrit Result
HCTDay #		HCTValue #

HCTTime \$5

form5\_hematocrit

Add record

Delete record

# Intra-abdominal Injury Annotated PUD eCRF

form5 (2 of 5)

## Laboratory Data

### Peripheral White Blood Cell Count

Peripheral white blood cell counts obtained?

WBCColl #

DV6032G

1 - Yes

2 - No

### Peripheral White Blood Cells

Date	Time	WBC Result
------	------	------------

WBCTime \$5

WBCValue #

WBCTime \$5

Add record

Delete record

form5\_wbc

### Serum Bicarbonate

Serum Bicarbonate lab obtained?

SerBicarbColl #

DV6032G

1 - Yes

2 - No

### Serum Bicarbonate

Date	Time	Serum Bicarb Result
------	------	---------------------

SerBicarbDay #

SerBicarbValue #

SerBicarbTime \$5

Add record

Delete record

form5\_bicarb

# Intra-abdominal Injury Annotated PUD eCRF

form5 (3 of 5)

## Laboratory Data

### Serum AST

Serum Ast lab obtained?

SerumASTColl #

DV6032G

1 - Yes

2 - No

### Serum AST

Date	Time	Serum AST Result
SerASTDay #		SerASTValue #

SerASTTime \$5

Add record

Delete record

form5\_ast

### Serum ALT

Serum ALT lab obtained?

SerumALTColl #

DV6032G

1 - Yes

2 - No

### Serum ALT

Date	Time	Serum ALT Result
SerALTDay #		SerALTValue #

SerALTTime \$5

Add record

Delete record

form5\_alt

# Intra-abdominal Injury Annotated PUD eCRF

form5 (4 of 5)

## Laboratory Data

### Serum Amylase

Serum Amylase lab obtained?

SerAmylaseColl #

DV6032G

1 - Yes

2 - No

### Serum Amylase

Date	Time	Serum Amylase Result
SerAmylaseDay #		SerAmylValue #

SerAmylaseTime \$5

Add record

Delete record

form5\_amylase

### Serum Lipase

Serum Lipase lab obtained?

SerLipaseColl #

DV6032G

1 - Yes

2 - No

### Serum Lipase

Date	Time	Serum Lipase Result
SerLipaseDay #		SerLipaseValue #

SerLipaseTime \$5

Add record

Delete record

form5\_lipase

# Intra-abdominal Injury Annotated PUD eCRF

form5 (5 of 5)

## Laboratory Data

### Serum BUN

Serum BUN lab obtained?

SerBUNColl #

DV6032G

1 - Yes

2 - No

### Serum BUN

Date	Time	Serum BUN Result
SerBunDay #		SerBUNValue #

SerBUNTime \$5

Add record

Delete record

form5\_bun

### Serum Creatinine

Serum Creatinine lab obtained?

SerCreatColl #

DV6032G

1 - Yes

2 - No

### Serum Creatinine

Date	Time	Serum Creatinine Result
SerCreatDay #		SerCreatValue #

SerCreatTime \$5

Add record

Delete record

form5\_creatinine



# Intra-abdominal Injury Annotated PUD eCRF

form6a (1 of 3)

## Clinical Outcome

### Clinical Outcome - RA Data Collection Form

Disposition from the ED

IAIEDDisp #



Other specify or Name of Hospital

Value not provided

Patient subsequently admitted within 30 days of ED Discharge

PtSubsAdmitted #

DV6032G

1 - Yes

2 - No

Patient readmitted to hospital within 30 days of ED Triage

PtReAdmitted #

Date of hospital discharge

DayofDischarge #

DV6577G

1 - Home

2 - Against Medical Advice (AMA)

3 - Death in ED

4 - Admit- general inpatient

5 - Admit short-stay/observation unit

6 - Operating Room

7 - ICU

8 - Transferred to another hospital

9 - Other

# Intra-abdominal Injury Annotated PUD eCRF

form6a (2 of 3)

## Clinical Outcome

### ICD9 codes upon discharge

ICD9 Code	Description
Value not provided	Value not provided

Add record

Delete record

Did patient have an intra-abdominal injury diagnosed in the ED/during hospitalization by any diagnostic method?

Did patient undergo a diagnostic peritoneal lavage (DPL)?

Was the DPL abnormal?

Was a laparoscopy (surgical visualization) performed?

Report Upload (Laparoscopy)

Was a laparotomy (abdominal surgery) performed?

Report Upload (Laparotomy)

Thoracic (chest) injury diagnosed in ED &/or during hospitalization?

Pelvic fracture diagnosed in ED &/or during hospitalization?

Any non-abdominal surgical procedures in the first 24 hours after ED triage?

IAInED1 #

DiagPerLavage #

DPLAbnormal #

Laparoscopy #

Value not provided

Upload Data...

Laparotomy1 #

Value not provided

Upload Data...

ThoracicInjury #

PelvicFracture #

NonAbdSurg #

DV6032G  
1 - Yes  
2 - No

## Intra-abdominal Injury Annotated PUD eCRF

form6a (3 of 3)

### Clinical Outcome

#### Surgical procedures in the initial 24 hours

Select  
all  
surgical  
procedures  
performed

Other  
Surgery

SurgicalProc #



OtherSurgery \$255

Add record

Delete record

form6a\_nonabdsurgery

Did patient die within 30 days of injury?

DidPtDie #

DV6032G

1 - Yes

2 - No

Cause of Death

DeathCause #

Specify other cause(s) of death

OtherDeathCause \$255

DV600G

- 1 - Orthopedic
- 2 - Facial (plastic or ENT)
- 3 - Neurosurgical
- 4 - Eye (ophthalmology)
- 5 - Vascular
- 6 - Urologic
- 7 - Other

DV204G

- 1 - Intra-abdominal injury
- 2 - Multiple blunt force trauma
- 3 - Traumatic brain injury
- 4 - Thoracic injury
- 5 - Other

# Intra-abdominal Injury Annotated PUD eCRF

form6b (1 of 6)

## Clinical Outcome

### Clinical Outcome - PI Data Collection Form

Did patient have an intra-abdominal injury diagnosed in the ED/during hospitalization by any diagnostic method

IAInED1 #

Was there an injury to the Liver?

Liver #

CT Grade (Liver)

CTGrade #

Was there an injury to the Spleen?

Spleen #

CT Grade (Spleen)

CTGrade2 #

Was there an injury to the Kidney?

Kidney #

CT Grade (Kidney)

CTGrade3 #

Was there a Gastrointestinal injury?

GITract #

Was there an injury to the Mesenteric?

Mesenteric #

Was there injury to the Small Bowel?

SmallBowel #

DV35G

- 1 - I
- 2 - II
- 3 - III
- 4 - IV
- 5 - V
- 6 - VI

DV6299G

- 1 - I
- 2 - II
- 3 - III
- 4 - IV
- 5 - V

DV6032G

- 1 - Yes
- 2 - No

## Intra-abdominal Injury Annotated PUD eCRF

form6b (2 of 6)

### Clinical Outcome

#### Select Small Bowel Injury

Select  
all  
small  
bowel  
injuries  
that  
apply

SmBowelInjury #

Add record

Delete record

DV170G  
1 - Duodenum  
2 - Jejunum  
3 - Ileum  
3 - Unspecified

form6b\_smbowelinjury

Was there injury to the Large Bowel?

LargeBowel #

DV6032G  
1 - Yes  
2 - No

# Intra-abdominal Injury Annotated PUD eCRF

form6b (3 of 6)

## Clinical Outcome

### Select Large Bowel Injury

Select  
all  
large  
bowel  
injuries  
that  
apply

LgBowelInjury #

DV171G  
1 - Cecum  
2 - Ascending colon  
3 - Transverse colon  
4 - Descending colon  
5 - Rectum  
6 - Unspecified

Add record

Delete record

form6b\_lgbowelinjury

# Intra-abdominal Injury Annotated PUD eCRF

form6b (4 of 6)

## Clinical Outcome

Was there injury to the Pancreas?

Pancreas #

Was there injury to the Gallbladder?

Gallbladder #

Was there a Fascial injury?

FascialInjury #

Was there injury to the Adrenal gland?

AdrenalGland #

Was there injury to the Urinary bladder?

UrinaryBladder #

Was there injury to the Vascular structure?

VascularStruct #

Was there injury to the Hemoperitoneum/free fluid?

HemoperitFluid #

Was an Other organ not listed injured?

OtherChecked #

Please specify ☐ Other Organ Injured ☐

TOrgansOther \$255

DV6032G  
1 - Yes  
2 - No

Did patient have a blood transfusion secondary to anemia/hemorrhage from IAI injury

BldTransfusion #

Patient kept NPO and received IV fluids for greater than or equal to 2 days

IVFluids #

Was there a urinalysis done at the initial ED visit documented with an RBC/HPF result?

Value not provided

# of RBC/HPF

Value not provided

Did patient have a thoracic injury?

ThoracicInjury1 #

DV4705G

1 - Yes  
2 - Probably  
3- Can't Tell  
4 - No

# Intra-abdominal Injury Annotated PUD eCRF

form6b (5 of 6)

## Clinical Outcome

<b>Select all thoracic injuries</b>	<b>Other thoracic injury</b>	<b>Did patient receive a chest tube/tube thoracostomy</b>
AllInjuries2 #	OtherThoracInj \$255	ChestTube #

DV2140G

- 1 - Pulmonary Contusion
- 2 - Pneumothorax
- 3 - Hemothorax
- 4 - Rib Fracture
- 5 - Diaphragm
- 6 - Sternal Fracture
- 7 - Aortic Injury
- 8 - Tracheal Bronchial Disruption
- 9 - Cardiac Contusion
- 10 - Pneumomediastinum
- 11 - Pneumopericardium
- 12 - Hemopericardium
- 13 - Other Thoracic Injury

DV6032G

- 1 - Yes
- 2 - No



# Intra-abdominal Injury Annotated PUD eCRF

form6b (6 of 6)

## Clinical Outcome

### Aortic injury interventions

<b>Aortic Injury interventions</b>	<b>Other aortic injury intervention</b>
AortInjInterv #	OtherInterven \$255

form6b\_aortininterv

Add record

Delete record

Did the patient undergo a thoracotomy?

Thoracotomy #

DV6032G

1 - Yes

2 - No

Did patient have a pelvic fracture?

PelvicFracture1 #

form6b\_bonesfractured

Select all bones fractured

Other bone (specify)

BonesFractured #

OtherBone \$255

Add record

Delete record

Did patient undergo surgical repair for their pelvic fracture

SurgicalRepair #

DV6592G

1 - Pubis

2 - Ilium

3 - Ischium

4 - Sacrum

5 - Acetabular fracture

6 - Hip dislocation

7 - Open book fracture

8 - SI joint disruption

9 - Other

DV6032G

1 - Yes

2 - No

DV4528G

1 - Surgical repair

2 - Aortic stenting

3 - Other

# Intra-abdominal Injury Annotated PUD eCRF

form6c (1 of 7)

Unscheduled

## Laparotomy Summary Information

Abdominal Procedure #

LapNumber #

Abdominal Procedure Date

LapDay #

Abdominal Procedure Time

LapTime \$5

Abdominal Procedure Type

LaparotomyType #

Did the patient have an intra-abdominal injury at laparotomy?

IAIDxDuringLap #

Did the patient have hemoperitoneum?

HemoDxDurLap #

Did the patient have a surgical intervention during procedure?

IntervenDurLap #

DV6726G

1 - 1  
2 - 2  
3 - 3  
4 - 4  
5 - 5  
6 - 6  
7 - 7  
8 - 8  
9 - 9  
10 - 10

DV6032G

1 - Yes  
2 - No

LAPTYPE

1 - Exploratory Laparotomy  
2 - Decompressive Laparotomy  
3 - Exploratory and Decompressive Laparotomy  
4 - Laparoscopy  
5 - Laparoscopy converted to Laparotomy  
6 - Laparoscopy converted to Exploratory and Decompressive Laparotomy  
7 - Other

# Intra-abdominal Injury Annotated PUD eCRF

form6c (2 of 7)

## Unscheduled

### Abdominal Organs Injured

DV6032G

- 1 - Yes
- 2 - No

### Splenic Injury-->:

Form6CSpleen #

### Spleen Injury Interventions

### Other intervention

form6c\_spleeninterv

SpleenInjInterv #

OthSpleenInterv \$255

Add record

Delete record

### Liver Injury-->:

Form6CLiver #

DV6032G

- 1 - Yes
- 2 - No

### Liver Injury Interventions

### Other intervention

form6c\_liverinterv

LiverInjInterv #

OthLiverInterv \$255

Add record

Delete record

DV2925G

- 0 - No Intervention
- 1 - Splenectomy
- 2 - Sutured splenorrhaphy
- 3 - Use of hemostatic agent(s)
- 4 - Other

DV974G

- 0 - No Intervention
- 1 - Resection
- 2 - Packing
- 3 - Use of hemostatic agent(s)
- 4 - Suture repair
- 5 - Other

# Intra-abdominal Injury Annotated PUD eCRF

form6c (3 of 7)

Unscheduled

DV6032G

1 - Yes  
2 - No

**Stomach Injury-->:**

Form6CStomach #

**Stomach  
Injury  
Interventions**

**Other stomach repair (list type)**

form6c\_stomachinterv

StomachInjInter #

OthStomachInter \$255

Add record

Delete record

**Small Intestine Injury-->:**

Form6CSmallGI #

**Small  
Intestine  
Interventions**

**Other gastrointestinal repair (list type)**

form6c\_smintesinterv

SmIntInjInter #

OthSmIntRepair \$255

Add record

Delete record

DV6032G

1 - Yes  
2 - No

DV6914G

0 - No Intervention  
1 - Stomach resection  
2 - Stomach repair  
3 - Other stomach repair

DV868G

0 - No Intervention  
1 - Bowel resection  
2 - Bowel re-anastomosis  
3 - Full thickness repair  
4 - Serosal repair  
5 - Hematoma drainage  
6 - Mesenteric repair  
7 - Other gastrointestinal repair

# Intra-abdominal Injury Annotated PUD eCRF

form6c (4 of 7)

Unscheduled

Large Intestine Injury-->

Form6CLgIntest #

DV6032G

1 - Yes  
2 - No

Large Intestine Interventions

Other gastrointestinal repair (list type)

form6c\_lgintesinterv

LgIntInjInterv #

OthLgIntRepair \$255

Add record

Delete record

Kidney Injury-->

Form6CKidney #

DV6032G

1 - Yes  
2 - No

Kidney Injury Interventions

Other intervention

form6c\_kidneyinterv

KidneyInjInterv #

OthKidneyInterv \$255

Add record

Delete record

DV521G

0 - No Intervention  
1 - Resection  
2 - Other

DV868G

0 - No Intervention  
1 - Bowel resection  
2 - Bowel re-anastamosis  
3 - Full thickness repair  
4 - Serosal repair  
5 - Hematoma drainage  
6 - Mesenteric repair  
7 - Other gastrointestinal repair

# Intra-abdominal Injury Annotated PUD eCRF

form6c (5 of 7)

Unscheduled

DV6032G

1 - Yes  
2 - No

**Pancreas Injury-->:** Form6CPancreas #

**Pancreas  
Injury  
Interventions**

**Other intervention**

PancreasInterv #

OthPanInterv \$255

Add record

Delete record

form6c\_pancreasinterv

**Gallbladder Injury-->:** Form6CGallInj #

**Gallbladder  
Injury  
Interventions**

**Other intervention**

GallbladInterv #

OthGallInterv \$255

Add record

Delete record

form6c\_gallbladinterv

DV6032G

1 - Yes  
2 - No

DV521G

0 - No Intervention  
1 - Resection  
2 - Other

DV197G

0 - No Intervention  
1 - Resection  
2 - Drainage  
3 - Other

# Intra-abdominal Injury Annotated PUD eCRF

form6c (6 of 7)

Unscheduled

DV6032G

1 - Yes  
2 - No

**Fascial Injury-->:**

Form6CFascInj #

**Fascial  
Injury  
Interventions**

**Other intervention**

FascialInjInter #

OthFascialInter \$255

Add record

Delete record

form6c\_fascialinterv

**Urinary Injury-->:**

Form6CUnBlad #

**Urinary  
Bladder  
Injury  
Interventions**

**Other intervention**

UrinaryInterv #

OthUrinaryInterv \$255

Add record

Delete record

form6c\_urinaryinterv

DV6032G

1 - Yes  
2 - No

DV528G

0 - No Intervention  
1 - Repair of bladder injury  
2 - Other

DV2078G

0 - No Intervention  
1 - Repair of fascia/hernia  
2 - Other

## Intra-abdominal Injury Annotated PUD eCRF

form6c (7 of 7)

### Unscheduled

**Other Abdominal Injury-->:**

Form6COther #

DV6032G

1 - Yes  
2 - No

**Other Abdominal Injury (list injury)**

OtherAbdInjury \$255

**Other Abdominal Injury Interventions**

OtherInjInterv #

**Other intervention**

OthAbInjurInter \$255

DV6915G

1 - No Intervention to the other injury identified  
2 - Other



# Intra-abdominal Injury Annotated PUD eCRF

form7apancinj\_spec (1 of 6)

**Laparotomy/Laparoscopy**

Did the patient have a laparotomy/laparoscopy procedure? **DV6032G**  
 1 - Yes  
 2 - No

**Laparot #** If yes, did the patient have a pancreatic injury? **PancInj #** **LapGrade**  
 1 - AAST Grade 1 or 2  
 2 - AAST Grade 3, 4, or 5  
 3 - Only traumatic finding at laparotomy/laparoscopy is fluid around the pancreas  
 93 - Unable to determine pancreatic injury grade by laparotomy/laparoscopy report

**LaparotGradeInj #**

**LapGrade1or2 #** If grade 1 or 2, specify: **LapGrade3or4or5 #** If grade 3, 4, or 5, specify:

**LapPancDuctStat #** Provide pancreatic duct status based on laparotomy/laparoscopy note: **LpPcSt**  
 1 - Duct transected  
 2 - Duct not transected  
 3 - Duct status indeterminate despite clear mention of attempt at ascertainment  
 4 - Attempt to ascertaining duct status not mentioned in laparotomy/laparoscopy report or medical record

**GrdSpcA**  
 1 - AAST Grade I: Hematoma- minor contusion without duct injury, or Laceration- superficial laceration without duct injury  
 2 - AAST Grade II: Hematoma- major contusion without duct injury or tissue loss, or Laceration- major laceration without duct injury or tissue loss  
 93 - Unclear if Grade 1 or Grade 2

**Abdominal CT**

Did the patient have an abdominal CT scan? **DV6032G**  
 1 - Yes  
 2 - No

**AbdCT #** If yes, did the patient have a pancreatic injury? **CTPancInj #** **CTGrade**  
 1 - AAST Grade 1 or 2  
 2 - AAST Grade 3, 4, or 5  
 3 - Only CT finding is fluid around the pancreas  
 93 - Unable to determine pancreatic injury grade by CT report

**CTGradeInj #**

**CTGrade1or2 #** If grade 1 or 2, specify: **CTGrade3or4or5 #** If grade 3, 4, or 5, specify:

**CTPancDuctStat #** Provide pancreatic duct status based on CT scan: **CTPcSt**  
 1 - Duct transected  
 2 - Duct not transected  
 3 - Duct status indeterminate on CT  
 97 - No mention of duct status on CT

**GrdSpcB**  
 1 - AAST Grade III: Laceration- distal transection or parenchymal injury with duct injury  
 2 - AAST Grade IV: Laceration- proximal transection or parenchymal injury involving ampulla (proximal pancreas is to the patients' right of the superior mesenteric vein)  
 3 - AAST Grade V: Massive disruption of pancreatic head  
 93 - Unclear if Grade 3, 4, or 5

# Intra-abdominal Injury Annotated PUD eCRF

form7apancinj\_spec (2 of 6)

[Laparot... \(0/6\)](#)
[Abdomin... \(0/6\)](#)
[MRI \(0/6\)](#)
-- Select to Jump --

**Title: MRI**

MRI

Did the patient have a MRI? MRI # DV6032G  
1 - Yes  
2 - No

If yes, did the patient have a pancreatic injury? MRIPancInj # wing questions:

Grade of injury at MRI MRIGradeInj # MRIGrade  
1 - AAST Grade 1 or 2  
2 - AAST Grade 3, 4, or 5  
3 - Only MRI finding is fluid around the pancreas  
93 - Unable to determine pancreatic injury grade by MRI report

Grade Specification

If grade 1 or 2, specify: MRIGrade1or2 # MRIGrade3or4or5 #

If grade 3, 4, or 5, specify:

Provide pancreatic duct status based on MRI: MRIPancDuctStat # MRIPcSt  
1 - Duct transected  
2 - Duct not transected  
3 - Duct status indeterminate on MRI  
97 - No mention of duct status on MRI

**Title: ERCP**

ERCP (0/6) [Enzymes \(0/9\)](#) -- Select to Jump --

Did the patient have an ERCP (Endoscopic Retrograde Cholangiopancreatography)? ERCP # DV6032G  
1 - Yes  
2 - No

If yes, did the patient have a pancreatic injury? ERCPancInj # wing questions:

Grade of injury at ERCP ERCPGradeInj # ERCPGrd  
1 - AAST Grade 1 or 2  
2 - AAST Grade 3, 4, or 5  
93 - Unable to determine pancreatic injury grade by ERCP report

Grade Specification

If grade 1 or 2, specify: ERCPGrade1or2 # GrdSpcA  
1 - AAST Grade I: Hematoma- minor contusion without duct injury, or Laceration- superficial laceration without duct injury  
2 - AAST Grade II: Hematoma- major contusion without duct injury or tissue loss, or Laceration- major laceration without duct injury or tissue loss  
93 - Unclear if Grade 1 or Grade 2

If grade 3, 4, or 5, specify: ERCPGrade3or4or5 # GrdSpcB  
1 - AAST Grade III: Laceration- distal transection or parenchymal injury with duct injury  
2 - AAST Grade IV: Laceration- proximal transection or parenchymal injury involving ampulla (proximal pancreas is to the patients' right of the superior mesenteric vein)  
3 - AAST Grade V: Massive disruption of pancreatic head  
93 - Unclear if Grade 3, 4, or 5

Provide pancreatic duct status based on ERCP: ERCPancDuctStat # ERCPPcSt  
1 - Duct transected  
2 - Duct not transected  
3 - Duct status indeterminate on ERCP  
97 - No mention of duct status on ERCP

# Intra-abdominal Injury Annotated PUD eCRF

form7apancinj\_spec (3 of 6)

ERCP (0/6) Enzymes (0/9) Pancrea...(0/2) -- Select to Jump --

**Title: Enzymes**

**Pancreatic Enzymes**

Did the patient have elevated (above normal level at your site) pancreatic enzymes? (Amylase or Lipase)

PancEnz #

If yes, answer the following questions:

Highest Lipase: HighLip # Date: LipDay # (DD-MMM-YYYY) Time: LipTime \$6 #MM)

☐ No lipase measured during ED evaluation or hospitalization NoLip #

Highest Amylase: HighAm # Date: AmDay # (DD-MMM-YYYY) Time: AmTime \$9 #MM)

☐ No amylase measured during ED evaluation or hospitalization NoAm #

Amylase  
1 - No amylase measure during the ED evaluation or hospitalization

Lipase  
1 - No lipase measured during the ED evaluation or hospitalization

Enzymes (0/9) Pancrea...(0/2) Autopsy (0/6) -- Select to Jump --

**Title: Pancreatic Injury**

**Pancreatic Injury**

Was the pancreatic injury identified solely by clinical suspicion of the treating physician? (patient had normal amylase/lipase and normal pancreas on CT scan and/or surgery)

PancInjClin #

If yes, provide reason patient was diagnosed with a pancreatic injury

PancInjReas \$10

DV6032G  
1 - Yes  
2 - No

# Intra-abdominal Injury Annotated PUD eCRF

form7apancinj\_spec (4 of 6)

**Autopsy (0/6)** **Other (0/5)** **Injury (0/11)** **-- Select to Jump --**

**Title: Autopsy**

**Autopsy**

Did the patient have an autopsy? **AutoPancInj #** **DV6032G**  
 1 - Yes  
 2 - No

If yes, did the patient have a pancreatic injury? **AtGrd**  
 1 - AAST Grade 1 or 2  
 2 - AAST Grade 3, 4, or 5  
 3 - Only autopsy finding is fluid around the pancreas

**AutoGradeInj #**

Grade of injury at autopsy

Grade Specification

If grade 1 or 2, specify: **AutoGrade1or2 #** If grade 3, 4, or 5, specify: **AutoGrade3or4or5 #**

Provide pancreatic duct status based on autopsy: **AutoPancDuctStat #** **AtPcSt**  
 1 - Duct transected  
 2 - Duct not transected  
 3 - Duct status indeterminate on autopsy  
 97 - No mention of duct status on autopsy

**GrdSpcA**  
 1 - AAST Grade I: Hematoma- minor contusion without duct injury, or Laceration- superficial laceration without duct injury  
 2 - AAST Grade II: Hematoma- major contusion without duct injury or tissue loss, or Laceration- major laceration without duct injury or tissue loss  
 93 - Unclear if Grade 1 or Grade 2

**Other (0/5)** **Injury (0/11)** **-- Select to Jump --**

**Title: Other**

**Other**

Was the pancreatic injury identified by other means? **PancInjOt #** **DV6032G**  
 1 - Yes  
 2 - No

If yes, specify method: **PancInjOtMethod \$19**

Grade of injury identified by other means **OtGradeInj #** **OtGrade**  
 1 - AAST Grade 1 or 2  
 2 - AAST Grade 3, 4, or 5

Grade Specification

If grade 1 or 2, specify: **OtGrade1or2 #** If grade 3, 4, or 5, specify: **OtGrade3or4or5 #**

**GrdSpcB**  
 1 - AAST Grade III: Laceration- distal transection or parenchymal injury with duct injury  
 2 - AAST Grade IV: Laceration- proximal transection or parenchymal injury involving ampulla (proximal pancreas is to the patients' right of the superior mesenteric vein)  
 3 - AAST Grade V: Massive disruption of pancreatic head  
 93 - Unclear if Grade 3, 4, or 5

form7apancinj\_spec (5 of 6)

Intra-abdominal Injury\_Annotated PUD eCRF\_v1.0\_23Apr2014

## Intra-abdominal Injury Annotated PUD eCRF

form7apancinj\_spec (6 of 6)

◀ Other (0/5) Injury/... (0/11) **Comments (0/1)** ▶ -- Select to Jump -- ▼

**Title: Comments**

**Provide any additional comments:**

Comments \$62

## Intra-abdominal Injury Annotated PUD eCRF

form7bgiinj\_spec (1 of 5)

<p>GI Inju... (0/4)    Stomach (0/4)</p> <p><b>Title: GI Injury</b></p> <p>Gastrointestinal Injury</p> <p><b>GIInj #</b></p> <p>Add</p>	<p><b>GIInj</b></p> <p>1 - Gastrointestinal injury at laparotomy</p> <p>2 - Gastrointestinal injury identified by laparoscopy</p> <p>3 - Gastrointestinal injury definitively identified on abdominal CT scan (CT demonstrates bowel hematoma, mesenteric hematoma, etc)</p> <p>4 - Gastrointestinal injury by upper gastrointestinal series (contrast enhanced plain films of the upper gastrointestinal tract- stomach and small intestine)</p> <p>5 - Gastrointestinal injury identified MRI</p> <p>6 - Gastrointestinal injury identified on the treating physicians' suspicion</p> <p>7 - Gastrointestinal injury identified at autopsy</p> <p>90 - Gastrointestinal injury identified by other means</p>	<p style="text-align: right;">form7bgiinj</p> <p>If gastrointestinal injury identified by other means, specify:</p> <p><b>GIInjOt \$82</b></p> <p>X</p>
<p><b>Gastrointestinal Physician</b></p> <p>If treating physician</p> <p><b>GIInjPhys #</b></p> <p>Add</p>	<p><b>InjPhys</b></p> <p>1 - Seat belt sign</p> <p>2 - Persistent vomiting</p> <p>3 - Handlebar injury to abdomen</p> <p>4 - Abdominal pain/tenderness</p> <p>90 - Other</p>	<p>If other, specify:</p> <p><b>GIInjPhysOt \$70</b></p> <p>X</p> <p style="text-align: right;">form7bgiinj_phys</p>

<p>GI Inju... (0/4)    <b>Stomach (0/4)</b>    Duodenum (0/5)</p> <p><b>Title: Stomach</b></p> <p><b>Stomach Injuries</b></p> <p>Was a stomach injury identified?</p> <p><b>StomInj #</b></p> <p>If yes, answer the following questions:</p> <p><b>Stomach Injury</b></p> <p><b>Provide the type of stomach injury:</b></p> <p><b>StomInjTyp #</b></p> <p>Add</p>	<p><b>DV6032G</b></p> <p>1 - Yes</p> <p>2 - No</p>	<p><b>Method injury identified:</b></p> <p><b>StomMeth #</b></p> <p>Add</p>	<p><b>If other, specify:</b></p> <p><b>StomMethOt \$24</b></p> <p>X</p>	<p style="text-align: right;">form7bgiinj_stom</p>
<p><b>Type</b></p> <p>1 - Hematoma</p> <p>2 - Perforation</p> <p>3 - Serosal Tear</p> <p>4 - Devascularization</p>	<p><b>Method</b></p> <p>1 - Laparotomy</p> <p>2 - Laparoscopy</p> <p>3 - CT</p> <p>4 - Upper GI</p> <p>5 - MRI</p> <p>6 - Autopsy</p> <p>90 - Other</p>			

# Intra-abdominal Injury Annotated PUD eCRF

form7bgiinj\_spec (2 of 5)

GI Inju...(0/4) Stomach (0/4) **Duodenum (0/5)** -- Select to Jump --

**Title: Duodenum**

**Duodenum Injuries**

Was a duodenum injury identified? DV6032G  
1 - Yes  
2 - No

DuodInj # If yes, answer the following questions:

**Duodenum Injury**

Provide the type of duodenum injury:	Method injury identified:	If other, specify:
<span style="border: 1px solid black; padding: 2px;">DuodInjTyp #</span>	<span style="border: 1px solid black; padding: 2px;">DuodMeth #</span>	<span style="border: 1px solid black; padding: 2px;">DuodMethOt \$41</span>
<span style="border: 1px solid black; padding: 2px;">Add</span> <span style="border: 1px solid black; padding: 2px;">X</span>		

form7bgiinj\_duod

Provide duodenal injury grade:  
(If multiple injuries, list highest grade)

DuodInjGrade #

Type  
 1 - Hematoma  
 2 - Perforation  
 3 - Serosal Tear  
 4 - Devascularization

Method  
 1 - Laparotomy  
 2 - Laparoscopy  
 3 - CT  
 4 - Upper GI  
 5 - MRI  
 6 - Autopsy  
 90 - Other

DuoGrd

1 - Grade I: Hematoma- involving single portion of the duodenum

2 - Grade I: Laceration- partial thickness, no laceration

3 - Grade II: Hematoma- involving more than one portion

4 - Grade II: Laceration- disruption < 50% of circumference

5 - Grade III: Laceration- disruption 50-75% circumference of 2nd portion

6 - Grade III: Laceration- disruption 50-100% circumference of 1st, 3rd, 4th portion of the duodenum

7 - Grade IV: Laceration- disruption of > 75% circumference of 2nd portion

8 - Grade IV: Involving ampulla or distal common bile duct

9 - Grade V: Laceration: massive disruption of duodenalpancreatic complex

10 - Grade V: Vascular- devascularization of duodenum

93 - Unable to grade injury (Try to grade the injury and avoid this response)



## Intra-abdominal Injury Annotated PUD eCRF

form7bgiinj\_spec (3 of 5)

DV6032G  
 1 - Yes  
 2 - No

SmIntLoc  
 1 - Jejunum  
 2 - Ileum  
 97 - Location not specified

Duodenum (0/5)
Small Intestine (0/8)
Colon (0/10)
-- Select to Jump --

**Title: Small Intestine**

**Small Intestine Injuries**

Was a small intestine injury identified? (Non-duodenum)

If yes, answer the following questions:

**Small Intestine Injury**

Provide small intestine injury location:	If Jejunum, specify type:	If Ileum, specify type:	If location not specified, specify
SmIntLoc #	SmIntJeyTyp #	SmIntIliTyp #	SmIntLocTyp #
form7bgiinj_smint			

**Method**

Method injury identified:	If other, specify:
SmIntInjMeth #	SmIntInjMethOt \$41
form7bgiinj_meth	

Provide small intestine injury grade:

(If multiple injuries, list highest grade)

SmIntGrade #

Method  
 1 - Laparotomy  
 2 - Laparoscopy  
 3 - CT  
 4 - Upper GI  
 5 - MRI  
 6 - Autopsy  
 90 - Other

SmInGrd  
 1 - Grade I: Hematoma- contusion or hematoma without devascularization  
 2 - Grade I: Laceration- partial thickness, no laceration  
 3 - Grade II: Laceration- disruption < 50% of circumference  
 4 - Grade III: Laceration- disruption >= 50% circumference without transaction  
 5 - Grade IV: Laceration- transection of the small bowel  
 7 - Grade V: Laceration- transaction of the small bowel with segmental tissue loss  
 8 - Grade V: Vascular- devascularized segment  
 93 - Unable to grade injury (try to grade injury and avoid this response)

## Intra-abdominal Injury Annotated PUD eCRF

form7bgiinj\_spec (4 of 5)

**Colon Injury**

Was a colon injury identified?

**ColonInj #**

If yes, answer the following questions:

Provide colon injury location: **ColInjLoc #** (select one)

If Ascending colon, specify type: **ColInjAscTyp #**

If Transverse colon, specify type: **ColInjTranTyp #** (select one)

If Descending colon, specify type: **ColInjDesTyp #**

If Sigmoid colon, specify type: **ColInjSigTyp #** (select one)

If Rectum, specify type: **ColInjRecTyp #**

Method injury identified: **ColInjMeth #**

Provide colon injury grade: **ColInjGrade #** (If multiple injuries, list highest grade)

**ColInjGrade #**

**ColInjMethOt \$13**

**Method**

1 - Laparotomy  
2 - Laparoscopy  
3 - CT  
4 - Upper GI  
5 - MRI  
6 - Autopsy  
90 - Other

**Type**

1 - Hematoma  
2 - Perforation  
3 - Serosal Tear  
4 - Devascularization

**DV6032G**

1 - Yes  
2 - No

**form7bgiinj\_colon**

**ColonLoc**

1 - Ascending colon  
2 - Transverse colon  
3 - Descending colon  
4 - Sigmoid colon  
5 - Rectum  
97 - Location not specified

**ColInjGrade #**

**ColInjGrd**

1 - Grade I: Hematoma- contusion or hematoma without devascularization  
2 - Grade I: Laceration- partial thickness, no laceration  
3 - Grade II: Laceration- disruption < 50% of circumference  
4 - Grade III: Laceration- disruption >= 50% circumference without transaction  
5 - Grade IV: Laceration- transection of the colon  
6 - Grade V: Laceration- transection of the colon with segmental tissue loss  
7 - Grade V: Vascular- devascularized segment  
93 - Unable to grade injury (try to grade the injury and avoid this response)

**Mesenteric Injury**

Was a mesenteric injury identified?

**MesInj #**

If yes, answer the following questions:

Provide mesenteric injury location: **MesInjLoc #**

If other, specify: **MesInjLocOt \$60**

If Small intestine mesentery, specify type: **MesInjSITyp #**

If Large Intestine mesentery, specify type: **MesInjLITyp #**

Method injury identified: **MesInjMeth #**

If other, specify: **MesInjMethOt \$8**

**MesLoc**

1 - Small intestine mesentery  
2 - Large intestine mesentery  
90 - Other

**Method**

1 - Laparotomy  
2 - Laparoscopy  
3 - CT  
4 - Upper GI  
5 - MRI  
6 - Autopsy  
90 - Other

**MesType**

1 - Hematoma  
2 - Perforation/laceration  
3 - Edema

**DV6032G**

1 - Yes  
2 - No

**form7bgiinj\_mes**

## Intra-abdominal Injury Annotated PUD eCRF

form7bgiinj\_spec (5 of 5)

Mesente...(0/7) Complic...(0/2) Comments (0/1) -- Select to Jump --

form7bgiinj\_comp

Title: Complications

Complications

Provide complication from GI Injury:

GIInjComp #

If other, specify:

GIInjCompOt \$128

Add

GIComp

- 0 - No complications identified from the GI injury
- 1 - Intra-abdominal abscess (collection of pus/fluid and treated as an abscess by the treating physician)
- 2 - Wound (surgical incision) dehiscence
- 3 - Wound (surgical incision) infection (erythema around or pus from wound considered an infection by treating physician and given antibiotics)
- 4 - Sepsis (as diagnosed by the treating physicians) and caused by the GI injury
- 5 - Post-operative peritonitis
- 6 - External fistula from the GI injury
- 7 - Anatomic disruption of the GI tract
- 8 - Renal failure because of GI injury
- 9 - Death from GI injury
- 90 - Other

Mesente...(0/7) Complic...(0/2) Comments (0/1) -- Select to Jump --

Title: Comments

Provide any additional comments:

Comments \$210

# Intra-abdominal Injury Annotated PUD eCRF

form7cbladinj\_spec (1 of 4)

Urinary...(0/3)

Injury ...(0/4)

Urinary...(0/2)

-- Select to Jump --

form7cbladinj

Title: Urinary Bladder Injury

Bladder Injury

Specify any injuries to the bladder:

If urinary bladder injury identified by other means, specify:

BladInj #

BladInjOth \$66

Add

Specify the bladder injury grade:

BladInjGrade #

UrBlad

1 - Urinary bladder injury identified by laparoscopy/laparotomy  
2 - Urinary bladder injury definitively identified on initial abdominal CT scan (CT demonstrates bladder injury)- This is not a CT cystogram (see below)  
3 - Urinary bladder injury by plain cystogram  
4 - Urinary bladder injury identified CT cystogram  
5 - Urinary bladder injury identified by cystoscopy  
6 - Urinary bladder injury identified by MRI  
7 - Urinary bladder injury identified at autopsy  
90 -Urinary bladder injury identified by other means

BlInjGr

1 - Grade I: Hematoma: Contusion, intramural hematoma, or Laceration: partial thickness (not completely through the bladder wall)  
2 - Grade II: Extraperitoneal bladder wall laceration < 2 cm in length  
3 - Grade III: Extraperitoneal bladder wall laceration > 2 cm in length, Intraperitoneal bladder wall laceration < 2 cm in length  
4 - Grade IV: Intraperitoneal bladder wall laceration > 2 cm in length  
5 - Grade V: Laceration (Intraperitoneal or Extraperitoneal laceration that extends into the bladder neck or ureteral orifice (trigone)

BlLcLoc

1 - Anterior  
2 - Posterior  
3 - Lateral  
4 - Bladder Neck  
5 - Ureteral Orifice (Trigone)  
92 - Unknown

Title: Injury Type

Bladder Injury Type

Specify the type of bladder injury:

If extraperitoneal laceration, specify the size of the laceration:

If extraperitoneal laceration, specify the location of the laceration:

If intraperitoneal laceration, specify the size of the laceration:

BladInjType #

BladExLac #

BladExLacLoc #

BladIntLac #

Add

BlInjTy

1 - Bladder Hematoma/Contusion  
2 - Partial Thickness Laceration  
3 - Extraperitoneal Laceration  
4 - Intraperitoneal Laceration

BladLac

1 - < 2 cm  
2 - > 2 cm  
92 - Unknown

# Intra-abdominal Injury Annotated PUD eCRF

form7cbladinj\_spec (2 of 4)

Urinary...(0/3) Injury ...(0/4) Urinary...(0/2) -- Select to Jump --

**Title: Urinalysis**

Provide the results of the urinalysis from the ED

Results: Urinalysis #  \* If microscopic hematuria, specify the number of RBC/HPF: UrinalysisMicro \$6

Urine  
0 - No urinalysis in the ED records  
1 - Gross hematuria  
2 - Microscopic hematuria  
3 - No hematuria

Urinary...(0/3) Urinary...(0/12) Complic...(0/2) -- Select to Jump --

**Title: Urinary Injury**

**Urethral Injury**

Did the patient have an urethral injury diagnosed?

UrethralInj # DV6032G  
1 - Yes  
2 - No

**Treatment of the Urinary Bladder Injury**

Did the patient have a foley catheter placement via the urethra?

TxFoleyCath # If yes, how many days of urethral foley catheter drainage? FoleyCathDays \$116

Did the patient have a suprapubic foley catheter placement?

TxSupFoley # If yes, how many days of suprapubic foley catheter drainage? SubFoleyDays \$13

YNU  
1 - Yes  
2 - No  
92 - Unknown

Did the patient have a laparoscopic repair?

TxLaparscRep # If yes, provide the date: LaparscRepDay # (DD-MMM-YYYY) Was a pelvic drain placed? LaparscRepDrain #

Did the patient have a laparotomy repair?

TxLaparRep # If yes, provide the date: LaparRepDay # (DD-MMM-YYYY) Was a pelvic drain placed? LaparRepDrain #

Was the patient prescribed IV or PO antibiotics?

IVPOAbx #

YNU  
1 - Yes  
2 - No  
92 - Unknown

# Intra-abdominal Injury Annotated PUD eCRF

form7cbladinj\_spec (3 of 4)

Urinary...(0/12)

Complic...(0/2)

Follow-...(0/4)

-- Select to Jump --

form7cbladinj\_comp

Title: Complications

Complications

Specify the complications occurring during hospitalization:

If other immediate complications, specify:

CompBladInj #

CompBladInjOt \$23

Add

BComp

1 - Wound (surgical incision) dehiscence  
2 - Wound (surgical incision) infection (erythema around or pus from wound considered an infection by treating physicians and given antibiotics)  
3 - Post-operative urinary extravasation  
4 - Post-operative hemorrhage from the bladder  
5 - Pelvic infection/abscess  
6 - Abdominal fascial dehiscence presents as persistent drainage from the incision site  
7 - Acute bilateral obstructive uropathy/ Urinary retention  
91 - No complications identified from urinary bladder injury  
90 - Other immediate complications

Complic...(0/2)

Follow-...(0/4)

Comments (0/1)

-- Select to Jump --

Title: Follow-Up

Follow-up of the urinary bladder injury

Did the patient have a follow-up after discharge from the hospital?

DV6032G

1 - Yes

2 - No

FollowUp #

If yes, provide date:

FUday #

(DD-MMM-YYYY)

Specify delayed complications documented from follow-up:

FUComp #

If other, specify:

FUCompOt \$30

FUComp

1 - Delayed bilateral obstructive uropathy  
2 - Urinary retention  
90 - Other delayed complications

## Intra-abdominal Injury Annotated PUD eCRF

form7cbladinj\_spec (4 of 4)

◀ **Complic...**(0/2) **Follow-...**(0/4) **Comments** (0/1) ▶ -- Select to Jump -- ▼

**Title: Comments**

**Provide any additional comments:**

Comments \$433