

i Current Data Access Group: [No Assignment]

 Switch

Data Dictionary Codebook

TVR Collaborative (PID: 37305)

12/03/2025 10:27pm

Instruments	
Instrument	Form Name
TVR Data	tvr_data
TVR Calculated Values	tvr_calculated_values
Registry Data	registry_data

#	Variable / Field Name	Field Label <i>Field Note</i>	Field Attributes (Field Type, Validation, Choices, Calculations, etc.)										
Instrument: TVR Data (tvr_data)													
1	[record_id]	Record ID	text										
2	[review_trigger]	Section Header: <i>Pre-arrival</i> What was the trigger for review at your institution?	radio <table border="1"><tr><td>1</td><td>Research</td></tr><tr><td>2</td><td>QI/PI</td></tr><tr><td>3</td><td>Education</td></tr><tr><td>4</td><td>Coaching</td></tr><tr><td>5</td><td>Other</td></tr></table>	1	Research	2	QI/PI	3	Education	4	Coaching	5	Other
1	Research												
2	QI/PI												
3	Education												
4	Coaching												
5	Other												
3	[trigger_other] Show the field ONLY if: [review_trigger] = 5	Other	text										
4	[camera_on]	Was the camera on and running when the patient arrived in the bay? <i>Defined as video recording before first view of patient/stretcher on main screen.</i>	yesno <table border="1"><tr><td>1</td><td>Yes</td></tr><tr><td>0</td><td>No</td></tr></table>	1	Yes	0	No						
1	Yes												
0	No												
5	[pre_arrival_briefing]	Was a pre-arrival briefing performed? <i>Per institutional standard. Unable to be determined if video starts after patient's arrival.</i>	radio <table border="1"><tr><td>1</td><td>Yes</td></tr><tr><td>2</td><td>No</td></tr><tr><td>3</td><td>Unable to determine</td></tr></table>	1	Yes	2	No	3	Unable to determine				
1	Yes												
2	No												
3	Unable to determine												
6	[pre_arrival_blood_ready]	Were blood products available prior to patient's arrival? <i>Defined as reviewer identifying blood products in the room, or team members confirming the presence of blood products</i>	radio <table border="1"><tr><td>1</td><td>Yes</td></tr><tr><td>2</td><td>No</td></tr><tr><td>3</td><td>Unable to determine</td></tr></table>	1	Yes	2	No	3	Unable to determine				
1	Yes												
2	No												
3	Unable to determine												
7	[patient_arrival]	Section Header: <i>Pre-hospital/Patient Handoff</i> Patient arrival <i>First view of patient on stretcher on main video screen in trauma bay, record as time of day</i>	text (datetime_seconds_dmy)										
8	[ems_handoff]	Was there an EMS handoff?	radio <table border="1"><tr><td>1</td><td>Yes</td></tr></table>	1	Yes								
1	Yes												

			<table border="1"> <tr><td>2</td><td>No</td></tr> <tr><td>3</td><td>Unable to determine</td></tr> </table>	2	No	3	Unable to determine				
2	No										
3	Unable to determine										
9	[ems_hand_off_start_time] Show the field ONLY if: [ems_handoff] = '1'	EMS hand-off start time <i>When EMS starts hand-off. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)								
10	[ems_hand_off_end_time] Show the field ONLY if: [ems_handoff] = '1'	EMS hand-off end time <i>When EMS completes hand-off tool, or if tool not complete, when EMS stops speaking. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)								
11	[handoff_repetitive] Show the field ONLY if: [ems_handoff] = '1'	Did any information have to be repeated? <i>EMS team is asked to state information that was already given</i>	radio <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>No</td></tr> <tr><td>3</td><td>Unable to determine</td></tr> </table>	1	Yes	2	No	3	Unable to determine		
1	Yes										
2	No										
3	Unable to determine										
12	[handoff_interruption] Show the field ONLY if: [ems_handoff] = '1'	Was there an interruption in communication at any point during handoff? <i>e.g. EMS team cut off, questions interjected, information asked for again, etc</i>	radio <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>No</td></tr> <tr><td>3</td><td>Unable to determine</td></tr> </table>	1	Yes	2	No	3	Unable to determine		
1	Yes										
2	No										
3	Unable to determine										
13	[bed_transfer]	Time of patient transfer to trauma stretcher <i>Time patient is on the trauma stretcher. If unable to determine ENTER 01-01-2020 00:00:01, and if not applicable 01/01/1900 12:59:59.</i>	text (datetime_seconds_dmy)								
14	[prehospital_access]	Did patient arrive with prehospital access <i>If pt arrived with any type of access (IO/IV)</i>	radio <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>No</td></tr> <tr><td>3</td><td>Unable to determine</td></tr> <tr><td>4</td><td>Not applicable (Not brought in by EMS)</td></tr> </table>	1	Yes	2	No	3	Unable to determine	4	Not applicable (Not brought in by EMS)
1	Yes										
2	No										
3	Unable to determine										
4	Not applicable (Not brought in by EMS)										
15	[prehospital_access_working] Show the field ONLY if: [prehospital_access] = '1'	Was pre-hospital access functional? <i>Working flushed IV/IO per EMS</i>	radio <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>No</td></tr> <tr><td>3</td><td>Unable to determine</td></tr> <tr><td>4</td><td>Not applicable (Not brought in by EMS)</td></tr> </table>	1	Yes	2	No	3	Unable to determine	4	Not applicable (Not brought in by EMS)
1	Yes										
2	No										
3	Unable to determine										
4	Not applicable (Not brought in by EMS)										
16	[prehospital_access_used] Show the field ONLY if: [prehospital_access] = '1'	Was pre-hospital access being used for infusions/transfusions? <i>Fluids/blood running on arrival</i>	radio <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>No</td></tr> <tr><td>3</td><td>Unable to determine</td></tr> <tr><td>4</td><td>Not applicable (Not brought in by EMS)</td></tr> </table>	1	Yes	2	No	3	Unable to determine	4	Not applicable (Not brought in by EMS)
1	Yes										
2	No										
3	Unable to determine										
4	Not applicable (Not brought in by EMS)										
17	[primary_survey_sta]	Section Header: <i>Resuscitation</i>	text (datetime_seconds_dmy)								

	[rt]	Time primary survey started <i>First time any part of primary survey is vocalized, record as time of day, e.g. "airway intact". If unable to determine ENTER 01-01-2020 00:00:01</i>																
18	[primary_survey_components]	What parts of the primary survey were completed? <i>Based on vocalization, e.g. "airway intact, bilateral breath sounds, bilateral DP pulses", etc</i>	checkbox <table border="1"> <tr><td>1</td><td>primary_survey_components__1</td><td>Airway</td></tr> <tr><td>2</td><td>primary_survey_components__2</td><td>Breath</td></tr> <tr><td>3</td><td>primary_survey_components__3</td><td>Circul</td></tr> <tr><td>4</td><td>primary_survey_components__4</td><td>Disab</td></tr> <tr><td>5</td><td>primary_survey_components__5</td><td>Expos</td></tr> </table>	1	primary_survey_components__1	Airway	2	primary_survey_components__2	Breath	3	primary_survey_components__3	Circul	4	primary_survey_components__4	Disab	5	primary_survey_components__5	Expos
1	primary_survey_components__1	Airway																
2	primary_survey_components__2	Breath																
3	primary_survey_components__3	Circul																
4	primary_survey_components__4	Disab																
5	primary_survey_components__5	Expos																
19	[primary_survey_end]	Time primary complete (once all components above complete) <i>Completion of primary will depend on blunt vs penetrating mechanism, in blunt mechanism completion of primary includes airway, breathing, circulatory, disability, and signs of anterior external injury, does not include log roll. In penetrating injury includes all the same as blunt injury, however, ALSO includes exam of the back, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)															
20	[patient_rolled]	Was the patient rolled? <i>Log roll of patient to complete exposure</i>	radio <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>No</td></tr> <tr><td>3</td><td>Unable to determine</td></tr> </table>	1	Yes	2	No	3	Unable to determine									
1	Yes																	
2	No																	
3	Unable to determine																	
21	[first_sbp_hr]	Time of first set of vitals <i>At a minimum time to first HR and SBP measured in trauma bay. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)															
22	[cavitory_triage_indicated]	Anatomic locations for which cavitory triage was indicated <i>Based on your judgement, was cavitory triage indicated? (e.g. penetrating wound to right chest with hypotension)</i>	checkbox <table border="1"> <tr><td>1</td><td>cavitory_triage_indicated__1</td><td>Thorax</td></tr> <tr><td>2</td><td>cavitory_triage_indicated__2</td><td>Abdomen</td></tr> <tr><td>3</td><td>cavitory_triage_indicated__3</td><td>Pelvis</td></tr> <tr><td>4</td><td>cavitory_triage_indicated__4</td><td>Unable to determine</td></tr> </table>	1	cavitory_triage_indicated__1	Thorax	2	cavitory_triage_indicated__2	Abdomen	3	cavitory_triage_indicated__3	Pelvis	4	cavitory_triage_indicated__4	Unable to determine			
1	cavitory_triage_indicated__1	Thorax																
2	cavitory_triage_indicated__2	Abdomen																
3	cavitory_triage_indicated__3	Pelvis																
4	cavitory_triage_indicated__4	Unable to determine																
23	[cavitory_triage_performed]	Anatomic locations for which cavitory triage was indicated performed <i>Based on your judgement was appropriate cavitory triage completed? (e.g. hypotensive right chest penetrating wound with hypotension had chest tube/finger thoracostomy)</i>	checkbox <table border="1"> <tr><td>1</td><td>cavitory_triage_performed__1</td><td>Thorax</td></tr> <tr><td>2</td><td>cavitory_triage_performed__2</td><td>Abdomen</td></tr> <tr><td>3</td><td>cavitory_triage_performed__3</td><td>Pelvis</td></tr> <tr><td>4</td><td>cavitory_triage_performed__4</td><td>Unable to determine</td></tr> </table>	1	cavitory_triage_performed__1	Thorax	2	cavitory_triage_performed__2	Abdomen	3	cavitory_triage_performed__3	Pelvis	4	cavitory_triage_performed__4	Unable to determine			
1	cavitory_triage_performed__1	Thorax																
2	cavitory_triage_performed__2	Abdomen																
3	cavitory_triage_performed__3	Pelvis																
4	cavitory_triage_performed__4	Unable to determine																
24	[unprotected_airway]	Unprotected airway <i>Examples of an unprotected airway includes cases in which a patient's with poor mental status to protect their airway, there is significant facial or oral trauma for the treating team to consider the airway unprotected, there is a foreign body obstructing the airway, or there is significant blood in the oral cavity causing the team to consider the airway unprotected</i>	radio <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>No</td></tr> <tr><td>3</td><td>Present on video review but not identified by team</td></tr> <tr><td>4</td><td>Unable to determine</td></tr> </table>	1	Yes	2	No	3	Present on video review but not identified by team	4	Unable to determine							
1	Yes																	
2	No																	
3	Present on video review but not identified by team																	
4	Unable to determine																	
25	[hemo_pneumothorax]	Hemothorax or pneumothorax	radio															

		For a hemo or pneumo to be considered relevant on the primary survey must be of large enough size to require intervention	<table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>No</td></tr> <tr><td>3</td><td>Present on video review but not identified by team</td></tr> <tr><td>4</td><td>Unable to determine</td></tr> </table>	1	Yes	2	No	3	Present on video review but not identified by team	4	Unable to determine							
1	Yes																	
2	No																	
3	Present on video review but not identified by team																	
4	Unable to determine																	
26	[significant_external_bleed]	Significant external hemorrhage <i>Ongoing external hemorrhage more than simple venous oozing</i>	radio <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>No</td></tr> <tr><td>3</td><td>Present on video review but not identified by team</td></tr> <tr><td>4</td><td>Unable to determine</td></tr> </table>	1	Yes	2	No	3	Present on video review but not identified by team	4	Unable to determine							
1	Yes																	
2	No																	
3	Present on video review but not identified by team																	
4	Unable to determine																	
27	[unstable_pelvis]	Unstable pelvis <i>Includes open book, lateral compression, or butterfly fragment (bilateral superior and inferior pubic rami fractures)</i>	radio <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>No</td></tr> <tr><td>3</td><td>Present on video review but not identified by team</td></tr> <tr><td>4</td><td>Unable to determine</td></tr> </table>	1	Yes	2	No	3	Present on video review but not identified by team	4	Unable to determine							
1	Yes																	
2	No																	
3	Present on video review but not identified by team																	
4	Unable to determine																	
28	[iv_access_first_start]	Time of FIRST IV attempt start <i>Time FIRST attempt of ANY TYPE(IO/IV/CVC) in trauma bay, defined as needle on skin if able; excluding pre-hospital access. If unable to determine ENTER 01-01-2020 00:00:01, and if Not Applicable 01/01/1900 12:59:59 .</i>	text (datetime_seconds_dmy)															
29	[access_type_trauma]	Access type first placed in the trauma bay? <i>First access being placed in trauma bay. IV= Peripheral intravenous, IO= intraosseous, CVC= Central Venous Catheter</i>	radio <table border="1"> <tr><td>1</td><td>IV</td></tr> <tr><td>2</td><td>IO</td></tr> <tr><td>3</td><td>CVC</td></tr> <tr><td>4</td><td>None</td></tr> </table>	1	IV	2	IO	3	CVC	4	None							
1	IV																	
2	IO																	
3	CVC																	
4	None																	
30	[iv_access_first_complete]	Time FIRST access attempt completion <i>Time to flush, or blood drawn back on ANY attempt (e.g. if multiple points of access are being attempted simultaneously, first completion). If unable to determine ENTER 01-01-2020 00:00:01, and if Not Applicable 01/01/1900 12:59:59 .</i>	text (datetime_seconds_dmy)															
31	[fast]	FAST	radio <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>No</td></tr> <tr><td>3</td><td>FAST not performed</td></tr> <tr><td>4</td><td>Unable to determine</td></tr> </table>	1	Yes	2	No	3	FAST not performed	4	Unable to determine							
1	Yes																	
2	No																	
3	FAST not performed																	
4	Unable to determine																	
32	[fast_result] Show the field ONLY if: [fast] = '1'	FAST result <i>The results stated by the team in the trauma bay, if only part of the FAST is done and no positive finding reported mark as incomplete, and indeterminate if the team verbalizes as such.</i>	checkbox, Required <table border="1"> <tr><td>1</td><td>fast_result__1</td><td>Positive abdomen</td></tr> <tr><td>2</td><td>fast_result__2</td><td>Positive heart</td></tr> <tr><td>3</td><td>fast_result__3</td><td>Positive lung(s)</td></tr> <tr><td>4</td><td>fast_result__4</td><td>Negative</td></tr> <tr><td>5</td><td>fast_result__5</td><td>Incomplete</td></tr> </table>	1	fast_result__1	Positive abdomen	2	fast_result__2	Positive heart	3	fast_result__3	Positive lung(s)	4	fast_result__4	Negative	5	fast_result__5	Incomplete
1	fast_result__1	Positive abdomen																
2	fast_result__2	Positive heart																
3	fast_result__3	Positive lung(s)																
4	fast_result__4	Negative																
5	fast_result__5	Incomplete																

			<table border="1"> <tr><td>6</td><td>fast_result_6</td><td>Indeterminate</td></tr> <tr><td>7</td><td>fast_result_7</td><td>Unable to Determine</td></tr> </table>	6	fast_result_6	Indeterminate	7	fast_result_7	Unable to Determine				
6	fast_result_6	Indeterminate											
7	fast_result_7	Unable to Determine											
33	<p>[time_fast_started]</p> <p>Show the field ONLY if: [fast] = '1'</p>	<p>Time FAST started</p> <p><i>Time US probe first touches the patient, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i></p>	text (datetime_seconds_dmy)										
34	<p>[time_fast_finished]</p> <p>Show the field ONLY if: [fast] = '1'</p>	<p>Time FAST finished</p> <p><i>Time all views obtained or individual during FAST reports they are done (i.e., decides indeterminate and completes exam), record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i></p>	text (datetime_seconds_dmy)										
35	[first_x_ray_time]	<p>Time of first X-RAY</p> <p><i>Defined as when the boom/machine is over the patient. If unable to determine ENTER 01-01-2020 00:00:01, and if Not Applicable 01/01/1900 12:59:59 .</i></p>	text (datetime_seconds_dmy)										
36	[any_hypotension]	<p>Any episode of hypotension?</p> <p><i>Including if patient arrives hypotensive, defined as systolic blood pressure < 90mmHg</i></p>	radio <table border="1"> <tr><td>1</td><td>No</td></tr> <tr><td>2</td><td>In ED</td></tr> <tr><td>3</td><td>Prehospital</td></tr> <tr><td>4</td><td>Prehospital AND ED</td></tr> <tr><td>5</td><td>Unable to determine</td></tr> </table>	1	No	2	In ED	3	Prehospital	4	Prehospital AND ED	5	Unable to determine
1	No												
2	In ED												
3	Prehospital												
4	Prehospital AND ED												
5	Unable to determine												
37	<p>[time_first_hypotension]</p> <p>Show the field ONLY if: [any_hypotension] = '1' or [any_hypotension] = '3'</p>	<p>Time of first episode of hypotension</p> <p><i>If prehospital hypotensive, use patient arrival time, otherwise record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i></p>	text (datetime_seconds_dmy)										
38	[temperature_measured]	<p>Temperature measured</p> <p><i>Was the patient's temperature checked in the trauma bay</i></p>	radio <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>No</td></tr> <tr><td>3</td><td>Unable to determine</td></tr> </table>	1	Yes	2	No	3	Unable to determine				
1	Yes												
2	No												
3	Unable to determine												
39	<p>[temperature_measured_time]</p> <p>Show the field ONLY if: [temperature_measured] = '1'</p>	<p>Temperature measured</p> <p><i>Time at which a temperature is obtained, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i></p>	text (datetime_seconds_dmy)										
40	[mtp_activated_preatrrival]	<p>Section Header: <i>Procedures & Interventions</i></p> <p>Was MTP activated pre-arrival?</p> <p><i>MTP activation verbalized prior to arrival</i></p>	radio <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>No</td></tr> <tr><td>3</td><td>Unable to determine</td></tr> </table>	1	Yes	2	No	3	Unable to determine				
1	Yes												
2	No												
3	Unable to determine												
41	[mtp_activated_in_ed]	Was MTP activated in ED?	radio, Required <table border="1"> <tr><td>1</td><td>Yes</td></tr> </table>	1	Yes								
1	Yes												

			2 No
42	[mtp_activation_time] Show the field ONLY if: [mtp_activated_preadmission] = '1' or [mtp_activated_in_ed] = '1'	Massive transfusion activated - Start time <i>Time at which the team activates the protocol (i.e., the phone call or page is made), record as time of day MAY BE PRIOR TO PATIENT ARRIVAL. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)
43	[ed_transfusion]	Were blood products transfused in ED? <i>Includes whole blood as well as, all components of blood</i>	radio, Required 1 Yes 2 No
44	[transfusion_decision_time] Show the field ONLY if: [ed_transfusion] = '1'	Blood transfusion - decision time <i>Time that individual leading the resuscitation verbalizes decision to initiate transfusion. If decision not verbalized then leave blank, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)
45	[transfusion_start_time] Show the field ONLY if: [ed_transfusion] = '1'	Blood transfusion - start time <i>Time at which the first unit of blood is visible in the blood tubing, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)
46	[txa]	TXA administration in trauma bay <i>Pre-hospital if EMS providers started first dose</i>	radio 1 Yes 2 No 3 Pre-hospital
47	[txa_decision_time] Show the field ONLY if: [txa]='1'	TXA - decision time <i>Time that individual leading the resuscitation verbalizes decision to start TXA, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)
48	[txa_start_time] Show the field ONLY if: [txa]='1'	TXA - start time <i>Time TXA is hung/pushed, record as time of day. Leave blank is given pre-hospital If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)
49	[calcium_administered]	Calcium administered as MTP adjunct	radio 1 Yes 2 No 3 Unable to determine
50	[time_calcium_administered] Show the field ONLY if: [calcium_administered] = '1'	Time Calcium administered <i>Time calcium is hung/pushed, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)
51	[intubated_in_bay]	Was patient intubated in trauma bay? <i>If the patient arrived non-intubated and were intubated in the trauma bay</i>	radio 1 Yes

			<table border="1"> <tr><td>2</td><td>No</td></tr> <tr><td>3</td><td>Unable to determine</td></tr> <tr><td>4</td><td>Tracheal intubation prior to arrival</td></tr> </table>	2	No	3	Unable to determine	4	Tracheal intubation prior to arrival
2	No								
3	Unable to determine								
4	Tracheal intubation prior to arrival								
52	[intubation_decision_time] Show the field ONLY if: [intubated_in_bay] = '1'	Intubation - decision time <i>Time that individual leading the resuscitation verbalizes decision to intubate, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)						
53	[intubation_start_time] Show the field ONLY if: [intubated_in_bay] = '1'	Intubation - start time <i>When laryngoscope (or bronch if fiberoptic approach) inserted into mouth, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)						
54	[intubation_completion_time] Show the field ONLY if: [intubated_in_bay] = '1'	Intubation - completion time <i>ETT confirmed to be in place by treating team and first breath delivered via BVM/vent, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)						
55	[post_intubation_hypotension] Show the field ONLY if: [intubated_in_bay] = '1'	Was hypotension observed post-intubation? <i>Yes if hypotension (SBP< 90) observed after intubation</i>	radio <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>No</td></tr> <tr><td>3</td><td>Unable to determine</td></tr> </table>	1	Yes	2	No	3	Unable to determine
1	Yes								
2	No								
3	Unable to determine								
56	[cric]	Was a cricothyroidotomy performed? <i>Yes if the team verbalized the decision to perform or started cricothyroidotomy</i>	radio <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>No</td></tr> <tr><td>3</td><td>Unable to determine</td></tr> </table>	1	Yes	2	No	3	Unable to determine
1	Yes								
2	No								
3	Unable to determine								
57	[cric_decision_time] Show the field ONLY if: [cric]= '1'	Cricothyroidotomy - decision time <i>Time that individual leading the resuscitation verbalizes decision to perform cricothyroidotomy, record as time of day. If decision not verbalized ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)						
58	[cric_start_time] Show the field ONLY if: [cric]= '1'	Cricothyroidotomy - start time <i>Time of skin incision, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)						
59	[cric_completion_time] Show the field ONLY if: [cric]= '1'	Cricothyroidotomy - completion time <i>Cric confirmed to be in place by treating team and first breath delivered via BVM/vent, record as time of day. If not completed, ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)						
60	[cvc]	Central Venous Catheter <i>If the team verbalized the decision to perform or started CVC insertion. CVC includes trauma lines, triple lumen, MAC, etc.</i>	radio <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>No</td></tr> <tr><td>3</td><td>Unable to determine</td></tr> </table>	1	Yes	2	No	3	Unable to determine
1	Yes								
2	No								
3	Unable to determine								

61	[cvc_total] Show the field ONLY if: [cvc] = '1'	How many CVC were placed? <i>How many CVC were placed</i>	radio <table border="1"> <tr><td>1</td><td>1</td></tr> <tr><td>2</td><td>2</td></tr> <tr><td>3</td><td>3</td></tr> <tr><td>4</td><td>More than 3</td></tr> </table>	1	1	2	2	3	3	4	More than 3
1	1										
2	2										
3	3										
4	More than 3										
62	[cvc_over_three] Show the field ONLY if: [cvc_total] ='4'	How many total CVCs were placed? <i>Please use the previous question if less than 4</i>	text (integer, Min: 4, Max: 10)								
63	[cvc_decision_time] Show the field ONLY if: [cvc_total]= '1' or [cvc_total] = '2' or [cvc_total] = '3' or [cvc_total] = '4'	Central Venous Catheter - decision time <i>Time that individual leading the resuscitation verbalizes decision to place CVC, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)								
64	[cvc_start_time] Show the field ONLY if: [cvc_total]= '1' or [cvc_total] = '2' or [cvc_total] = '3' or [cvc_total] = '4'	Central Venous Catheter - start time <i>Time of needle on skin, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)								
65	[cvc_completion_time] Show the field ONLY if: [cvc_total]= '1' or [cvc_total] = '2' or [cvc_total] = '3' or [cvc_total] = '4'	Central Venous Catheter - completion time <i>Time to flush, or blood drawn back, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)								
66	[cvc_decision_time_2] Show the field ONLY if: [cvc_total] = '2' or [cvc_total] = '3' or [cvc_total] = '4'	Central Venous Catheter - decision time 2 <i>Time that individual leading the resuscitation verbalizes decision to place CVC, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)								
67	[cvc_start_time_2] Show the field ONLY if: [cvc_total] = '2' or [cvc_total] = '3' or [cvc_total] = '4'	Central Venous Catheter - start time 2 <i>Time of needle on skin, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)								
68	[cvc_completion_time_2] Show the field ONLY if: [cvc_total] = '2' or [cvc_total] = '3' or [cvc_total] = '4'	Central Venous Catheter - completion time 2 <i>Time to flush, or blood drawn back, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)								

69	[cvc_decision_time_3] Show the field ONLY if: [cvc_total] = '3' or [cvc_total] = '4'	Central Venous Catheter - decision time 3 <i>Time that individual leading the resuscitation verbalizes decision to place CVC, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)								
70	[cvc_start_time_3] Show the field ONLY if: [cvc_total] = '3' or [cvc_total] = '4'	Central Venous Catheter - start time 3 <i>Time of needle on skin, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)								
71	[cvc_completion_time_3] Show the field ONLY if: [cvc_total] = '3' or [cvc_total] = '4'	Central Venous Catheter - completion time 3 <i>Time to flush, or blood drawn back, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)								
72	[finger_thora_only]	Was finger thoracostomy performed? <i>If the team verbalized or started finger tube thoracostomy (NOTE: only choose this if no chest tube followed the finger thoracostomy).</i>	radio <table border="1"> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>2</td> <td>No</td> </tr> <tr> <td>3</td> <td>Unable to determine</td> </tr> </table>	1	Yes	2	No	3	Unable to determine		
1	Yes										
2	No										
3	Unable to determine										
73	[finger_thora_only_total] Show the field ONLY if: [finger_thora_only] = '1'	How many finger thoracostomies (without tube insertion) were performed?	radio <table border="1"> <tr> <td>1</td> <td>1</td> </tr> <tr> <td>2</td> <td>2</td> </tr> <tr> <td>3</td> <td>3</td> </tr> <tr> <td>4</td> <td>More than 3</td> </tr> </table>	1	1	2	2	3	3	4	More than 3
1	1										
2	2										
3	3										
4	More than 3										
74	[finger_thora_over3] Show the field ONLY if: [finger_thora_only_total] = '4'	How many total finger thoracostomies (without chest tube insertion) was there: <i>Please use the previous question if less than 4</i>	text (integer, Min: 4, Max: 10)								
75	[finger_thora_decision] Show the field ONLY if: [finger_thora_only]='1' or [finger_thora_only]='2' OR [finger_thora_only]='3' OR [finger_thora_only]='4'	Finger thoracostomy - decision time <i>Time that individual leading the resuscitation verbalizes decision to perform finger thoracostomy, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)								
76	[finger_thora_start] Show the field ONLY if: [finger_thora_only]='1' or [finger_thora_only]='2' OR [finger_thora_only]	Finger thoracostomy - start time <i>Time of skin incision only record as finger thoracostomy if team states they are performing a finger thoracostomy or the chest is decompressed and a chest tube is not inserted, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)								

	nly]='3' OR [finger_thor_a_only]='4'		
77	[finger_thora_complete] Show the field ONLY if: [finger_thora_only]='1' OR [finger_thora_only] ='2' OR [finger_thora_o nly]='3' OR [finger_thor a_only]='4'	Finger thoracostomy - completion time <i>Time finger confirmed in chest, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)
78	[finger_thora_decision_2] Show the field ONLY if: [finger_thora_only]='2' OR [finger_thora_only] ='3' OR [finger_thora_o nly]='4'	Finger thoracostomy - decision time 2 <i>Time that individual leading the resuscitation verbalizes decision to perform finger thoracostomy, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)
79	[finger_thora_start_2] Show the field ONLY if: [finger_thora_only]='2' OR [finger_thora_only] ='3' OR [finger_thora_o nly]='4'	Finger thoracostomy - start time 2 <i>Time of skin incision only record as finger thoracostomy if team states they are performing a finger thoracostomy or the chest is decompressed and a chest tube is not inserted, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)
80	[finger_thora_complete_2] Show the field ONLY if: [finger_thora_only]='2' OR [finger_thora_only] ='3' OR [finger_thora_o nly]='4'	Finger thoracostomy - completion time 2 <i>Time finger confirmed in chest, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)
81	[finger_thora_decision_3] Show the field ONLY if: [finger_thora_only]='3' OR [finger_thora_only] ='4'	Finger thoracostomy - decision time 3 <i>Time that individual leading the resuscitation verbalizes decision to perform finger thoracostomy, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)
82	[finger_thora_start_3] Show the field ONLY if: [finger_thora_only]='3' OR [finger_thora_only] ='4'	Finger thoracostomy - start time 3 <i>Time of skin incision only record as finger thoracostomy if team states they are performing a finger thoracostomy or the chest is decompressed and a chest tube is not inserted, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)
83	[finger_thora_complete_3] Show the field ONLY if: [finger_thora_only]='3' OR [finger_thora_only] ='4'	Finger thoracostomy - completion time 3 <i>Time finger confirmed in chest, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)

	Show the field ONLY if: [finger_thora_only]='3' OR [finger_thora_only] ='4'										
84	[chest_tube]	Chest tube placement <i>At any point during the resuscitation was a chest tube inserted (independent of completion of the finger thoracostomy)</i>	radio <table border="1"> <tr> <td>1</td><td>Yes</td></tr> <tr> <td>2</td><td>No</td></tr> <tr> <td>3</td><td>Unable to determine</td></tr> </table>	1	Yes	2	No	3	Unable to determine		
1	Yes										
2	No										
3	Unable to determine										
85	[chest_tube_total] Show the field ONLY if: [chest_tube]= '1'	How many chest tubes were placed?	radio <table border="1"> <tr> <td>1</td><td>1</td></tr> <tr> <td>2</td><td>2</td></tr> <tr> <td>3</td><td>3</td></tr> <tr> <td>4</td><td>More than 3</td></tr> </table>	1	1	2	2	3	3	4	More than 3
1	1										
2	2										
3	3										
4	More than 3										
86	[chest_tube_over_three] Show the field ONLY if: [chest_tube_total] = '4'	How many total chest tubes were placed? <i>Please note you will only enter times for the first three</i>	text (integer, Min: 4, Max: 10)								
87	[chest_tube_decision_time] Show the field ONLY if: [chest_tube] = '1' or [chest_tube_total] = '2' or [chest_tube_total] = '3' or [chest_tube_total] = '4'	Chest tube - decision time <i>Time that individual leading the resuscitation verbalizes decision to insert chest tube, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)								
88	[chest_tube_start_time] Show the field ONLY if: [chest_tube] = '1' or [chest_tube_total] = '2' or [chest_tube_total] = '3' or [chest_tube_total] = '4'	Chest tube - start time <i>Time of skin incision, record as time of day (Can have multiple recurrences if multiple tubes placed). If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)								
89	[chest_tube_completion_time] Show the field ONLY if: [chest_tube] = '1' or [chest_tube_total] = '2' or [chest_tube_total] = '3' or [chest_tube_total] = '4'	Chest tube - completion time <i>Time chest tube secured in place, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)								
90	[chest_tube_completed]	Chest tube procedure completed <i>Yes - means tube secured to skin and fully dressed, partial is tube in place but not all parts of securing are complete (i.e.,</i>	radio <table border="1"> <tr> <td>1</td><td>Yes</td></tr> </table>	1	Yes						
1	Yes										

	Show the field ONLY if: [chest_tube] = '1' or [chest_tube_total] = '2' or [chest_tube_total] = '3' or [chest_tube_total] = '4'	<i>not sutured, not dressed), abandoned means the chest tube is not inserted into the chest and the procedure is stopped</i>	<table border="1"> <tr> <td>2</td><td>Partial</td></tr> <tr> <td>3</td><td>Abandoned</td></tr> <tr> <td>4</td><td>Unable to determine</td></tr> </table>	2	Partial	3	Abandoned	4	Unable to determine			
2	Partial											
3	Abandoned											
4	Unable to determine											
91	[chest_tube_decision_time_2] Show the field ONLY if: [chest_tube_total] = '2' or [chest_tube_total] = '3' or [chest_tube_total] = '4'	Chest tube - decision time 2 <i>Time that individual leading the resuscitation verbalizes decision to insert chest tube, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>		text (datetime_seconds_dmy)								
92	[chest_tube_start_time_2] Show the field ONLY if: [chest_tube_total] = '2' or [chest_tube_total] = '3' or [chest_tube_total] = '4'	Chest tube - start time 2 <i>Time of skin incision, record as time of day (Can have multiple recurrences if multiple tubes placed). If unable to determine ENTER 01-01-2020 00:00:01</i>		text (datetime_seconds_dmy)								
93	[chest_tube_completion_time_2] Show the field ONLY if: [chest_tube_total] = '2' or [chest_tube_total] = '3' or [chest_tube_total] = '4'	Chest tube - completion time 2 <i>Time chest tube secured in place, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>		text (datetime_seconds_dmy)								
94	[chest_tube_completed_2] Show the field ONLY if: [chest_tube_total] = '2' or [chest_tube_total] = '3' or [chest_tube_total] = '4'	Chest tube procedure completed 2 <i>Yes - means tube secured to skin and fully dressed, partial is tube is in place but not all parts of securing are complete (i.e., not sutured, not dressed), abandoned means the chest tube is not inserted into the chest and the procedure is stopped</i>	radio <table border="1"> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>2</td> <td>Partial</td> </tr> <tr> <td>3</td> <td>Abandoned</td> </tr> <tr> <td>4</td> <td>Unable to determine</td> </tr> </table>	1	Yes	2	Partial	3	Abandoned	4	Unable to determine	
1	Yes											
2	Partial											
3	Abandoned											
4	Unable to determine											
95	[chest_tube_decision_time_3] Show the field ONLY if: [chest_tube_total] = '3' or [chest_tube_total] = '4'	Chest tube - decision time 3 <i>Time that individual leading the resuscitation verbalizes decision to insert chest tube, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>		text (datetime_seconds_dmy)								
96	[chest_tube_start_time_3] Show the field ONLY if: [chest_tube_total] = '3' or [chest_tube_total] =	Chest tube - start time 3 <i>Time of skin incision, record as time of day (Can have multiple recurrences if multiple tubes placed). If unable to determine ENTER 01-01-2020 00:00:01</i>		text (datetime_seconds_dmy)								

	'4'										
97	[chest_tube_completion_time_3] Show the field ONLY if: [chest_tube_total] = '3' or [chest_tube_total] = '4'	Chest tube - completion time 3 <i>Time chest tube secured in place, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)								
98	[chest_tube_completed_3] Show the field ONLY if: [chest_tube_total] = '3' or [chest_tube_total] = '4'	Chest tube procedure completed 3 <i>Yes - means tube secured to skin and fully dressed, partial is tube is in place but not all parts of securing are complete (i.e., not sutured, not dressed), abandoned means the chest tube is not inserted into the chest and the procedure is stopped</i>	radio <table border="1"> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>2</td> <td>Partial</td> </tr> <tr> <td>3</td> <td>Abandoned</td> </tr> <tr> <td>4</td> <td>Unable to determine</td> </tr> </table>	1	Yes	2	Partial	3	Abandoned	4	Unable to determine
1	Yes										
2	Partial										
3	Abandoned										
4	Unable to determine										
99	[pelvic_binder]	Pelvic Binder Placed <i>Yes if the team verbalized the decision or started placing a pelvic binder.</i>	radio <table border="1"> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>2</td> <td>No</td> </tr> <tr> <td>3</td> <td>Unable to determine</td> </tr> </table>	1	Yes	2	No	3	Unable to determine		
1	Yes										
2	No										
3	Unable to determine										
100	[pelvic_binder_decision_time] Show the field ONLY if: [pelvic_binder]=1	Pelvic binder - decision time <i>Time that individual leading the resuscitation verbalizes decision to place a pelvic binder, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)								
101	[pelvic_binder_start_time] Show the field ONLY if: [pelvic_binder]=1	Pelvic binder - start time <i>Time sheet/binder started to be slid under patient, if started with binder on bed, time that binder started to be wrapped around patient, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)								
102	[pelvic_binder_completion_time] Show the field ONLY if: [pelvic_binder]=1	Pelvic binder - completion time <i>Time sheet/binder is secured around the patient's pelvis, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)								
103	[reductions]	Long bone reductions? <i>If the team verbalized or started reducing long bone fractures.</i>	radio <table border="1"> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>2</td> <td>No</td> </tr> <tr> <td>3</td> <td>Unable to determine</td> </tr> </table>	1	Yes	2	No	3	Unable to determine		
1	Yes										
2	No										
3	Unable to determine										
104	[reductions_total] Show the field ONLY if: [reductions] = '1'	How many reductions?	radio <table border="1"> <tr> <td>1</td> <td>1</td> </tr> <tr> <td>2</td> <td>2</td> </tr> <tr> <td>3</td> <td>3</td> </tr> <tr> <td>4</td> <td>more</td> </tr> </table>	1	1	2	2	3	3	4	more
1	1										
2	2										
3	3										
4	more										
105	[reductions_over_three]	How many reductions total? <i>Please note you will only enter times for the first three</i>	text (number, Min: 4)								

	Show the field ONLY if: [reductions_total] = '4'		
106	[reductions_decision_time] Show the field ONLY if: [reductions]= '1' or [reductions_total] = '3' or [reductions_total] = '2' or [reductions_total] = '4'	Reductions - decision time <i>Time that individual leading the resuscitation verbalizes decision to place traction on a limb, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)
107	[reductions_start_time] Show the field ONLY if: [reductions]= '1' or [reductions_total] = '3' or [reductions_total] = '2' or [reductions_total] = '4'	Reductions - start time <i>Time traction is started, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)
108	[reductions_completion_time] Show the field ONLY if: [reductions]= '1' or [reductions_total] = '3' or [reductions_total] = '2' or [reductions_total] = '4'	Reductions - completion time <i>Time reduction is splinted and ortho (or other team member) no longer needs to be physically holding traction, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)
109	[reductions_decision_time_2] Show the field ONLY if: [reductions_total] = '3' or [reductions_total] = '2' or [reductions_total] = '4'	Reductions - decision time 2 <i>Time that individual leading the resuscitation verbalizes decision to place traction on a limb, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)
110	[reductions_start_time_2] Show the field ONLY if: [reductions_total] = '3' or [reductions_total] = '2' or [reductions_total] = '4'	Reductions - start time 2 <i>Time traction is started, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)
111	[reductions_completion_time_2] Show the field ONLY if: [reductions_total] = '3' or [reductions_total] = '2' or [reductions_total] = '4'	Reductions - completion time 2 <i>Time reduction is splinted and ortho (or other team member) no longer needs to be physically holding traction, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)

112	[reductions_decision_time_3] Show the field ONLY if: [reductions_total] = '3' or [reductions_total] = '4'	Reductions - decision time 3 <i>Time that individual leading the resuscitation verbalizes decision to place traction on a limb, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)								
113	[reductions_start_time_3] Show the field ONLY if: [reductions_total] = '3' or [reductions_total] = '4'	Reductions - start time 3 <i>Time traction is started, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)								
114	[reductions_completion_time_3] Show the field ONLY if: [reductions_total] = '3' or [reductions_total] = '4'	Reductions - completion time 3 <i>Time reduction is splinted and ortho (or other team member) no longer needs to be physically holding traction, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)								
115	[reboa]	REBOA <i>If the team verbalized or started deploying REBOA</i>	radio <table border="1"> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>2</td> <td>No</td> </tr> <tr> <td>3</td> <td>Unable to determine</td> </tr> </table>	1	Yes	2	No	3	Unable to determine		
1	Yes										
2	No										
3	Unable to determine										
116	[reboa_total] Show the field ONLY if: [reboa] ='1'	How many REBOA placed?	radio <table border="1"> <tr> <td>1</td> <td>1</td> </tr> <tr> <td>2</td> <td>2</td> </tr> <tr> <td>3</td> <td>3</td> </tr> <tr> <td>4</td> <td>More than 3</td> </tr> </table>	1	1	2	2	3	3	4	More than 3
1	1										
2	2										
3	3										
4	More than 3										
117	[reboa_over_three] Show the field ONLY if: [reboa_total] = '4'	How many total REBOA placed? <i>Please note you will only enter times for the first three</i>	text (number, Min: 4)								
118	[reboa_decision_time] Show the field ONLY if: [reboa] ='1' or [reboa_total] = '2' or [reboa_total] = '3' or [reboa_total] = '4'	REBOA - decision time <i>Time that individual leading the resuscitation verbalizes decision to place REBOA, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)								
119	[reboa_start_time] Show the field ONLY if: [reboa] ='1' or [reboa_total] = '2' or [reboa_tot	REBOA - start time <i>Time needle is inserted into skin, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)								

	al] = '3' or [reboa_total] = '4'		
120	[reboa_completion_time] Show the field ONLY if: [reboa]= '1' or [reboa_total] = '2' or [reboa_total] = '3' or [reboa_total] = '4'	REBOA - completion time <i>Time balloon is inflated, distal flow disrupted or distal bleeding stopped. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)
121	[reboa_decision_time_2] Show the field ONLY if: [reboa_total] = '2' or [reboa_total] = '3' or [reboa_total] = '4'	REBOA - decision time 2 <i>Time that individual leading the resuscitation verbalizes decision to place REBOA, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)
122	[reboa_start_time_2] Show the field ONLY if: [reboa_total] = '2' or [reboa_total] = '3' or [reboa_total] = '4'	REBOA - start time 2 <i>Time needle is inserted into skin, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)
123	[reboa_completion_time_2] Show the field ONLY if: [reboa_total] = '2' or [reboa_total] = '3' or [reboa_total] = '4'	REBOA - completion time 2 <i>Time balloon is inflated, distal flow disrupted or distal bleeding stopped. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)
124	[reboa_decision_time_3] Show the field ONLY if: [reboa_total] = '3' or [reboa_total] = '4'	REBOA - decision time 3 <i>Time that individual leading the resuscitation verbalizes decision to place REBOA, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)
125	[reboa_start_time_3] Show the field ONLY if: [reboa_total] = '3' or [reboa_total] = '4'	REBOA - start time 3 <i>Time needle is inserted into skin, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)
126	[reboa_completion_time_3] Show the field ONLY if: [reboa_total] = '3' or [reboa_total] = '4'	REBOA - completion time 3 <i>Time balloon is inflated, distal flow disrupted or distal bleeding stopped. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)
127	[cpr_performed]	CPR - performed	radio, Required

		was CPR initiated at any point	<table border="1"> <tr><td>1</td><td>Pre-hospital</td></tr> <tr><td>2</td><td>In trauma bay</td></tr> <tr><td>3</td><td>No</td></tr> </table>	1	Pre-hospital	2	In trauma bay	3	No
1	Pre-hospital								
2	In trauma bay								
3	No								
128	[cpr_start_time] Show the field ONLY if: [cpr_performed] = '1' or [cpr_performed] = '2'	CPR start time/initiation <i>If prehospital use patient arrival time; if in trauma bay, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)						
129	[rosc] Show the field ONLY if: [cpr_performed] = '1' or [cpr_performed] = '2'	ROSC <i>If ROSC is achieved in the trauma bay (any episodes of ROSC, even if non sustained and patient subsequently lost pulses)</i>	radio <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>No</td></tr> <tr><td>3</td><td>Unable to determine</td></tr> </table>	1	Yes	2	No	3	Unable to determine
1	Yes								
2	No								
3	Unable to determine								
130	[rosc_time] Show the field ONLY if: [rosc]='1'	ROSC time <i>Time of ROSC verbalized by team, or present on video. record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)						
131	[ed_thoracotomy]	ED Thoracotomy <i>If the team verbalized or started ED thoracotomy</i>	radio <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>No</td></tr> <tr><td>3</td><td>Unable to be determined</td></tr> </table>	1	Yes	2	No	3	Unable to be determined
1	Yes								
2	No								
3	Unable to be determined								
132	[ed_thoracotomy_decision_t] Show the field ONLY if: [ed_thoracotomy]='1'	Thoracotomy - decision time <i>Time that individual leading the resuscitation verbalizes decision to perform thoracotomy, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)						
133	[ed_thoracotomy_start_t] Show the field ONLY if: [ed_thoracotomy]='1'	Thoracotomy - start time <i>Time of skin incision, record as time of day. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)						
134	[ed_thoracotomy_completet] Show the field ONLY if: [ed_thoracotomy]='1'	Thoracotomy - completion time <i>Time heart is delivered from pericardium, or if decision made to not deliver heart time that heart is inspected. If unable to determine ENTER 01-01-2020 00:00:01</i>	text (datetime_seconds_dmy)						
135	[death_in_trauma_bay]	Death in trauma bay <i>Patient pronounced in trauma bay</i>	radio, Required <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>No</td></tr> <tr><td>3</td><td>Unable to determine</td></tr> </table>	1	Yes	2	No	3	Unable to determine
1	Yes								
2	No								
3	Unable to determine								
136	[time_of_death_in_bay] Show the field ONLY if:	Time of death in trauma bay <i>Record as time of day if patient pronounced in the bay</i>	text (datetime_seconds_dmy)						

	[death_in_trauma_bay] ='1'																
137	[end_of_resuscitation]	End of resuscitation <i>Time trauma leader indicates the patient is ready to leave the trauma bay, record as time of day; if not explicitly stated then determined by reviewer. If unable to determine ENTER 01-01-2020 00:00:01, and if Not Applicable 01/01/1900 12:59:59 .</i>	text (datetime_seconds_dmy), Required														
138	[disposition]	Disposition	radio <table border="1"> <tr><td>1</td><td>OR</td></tr> <tr><td>2</td><td>IR</td></tr> <tr><td>3</td><td>ICU</td></tr> <tr><td>4</td><td>morgue</td></tr> <tr><td>5</td><td>to CT</td></tr> <tr><td>6</td><td>to ED</td></tr> <tr><td>7</td><td>Other</td></tr> </table>	1	OR	2	IR	3	ICU	4	morgue	5	to CT	6	to ED	7	Other
1	OR																
2	IR																
3	ICU																
4	morgue																
5	to CT																
6	to ED																
7	Other																
139	[other_dispo] Show the field ONLY if: [disposition]='7'	Other	text														
140	[time_of_departure]	Time of departure <i>Time in which pt moves to next phase of care defined as last view of patient in the trauma bay, or if deceased, TOD. If unable to determine ENTER 01-01-2020 00:00:01, and if Not Applicable 01/01/1900 12:59:59 .</i>	text (datetime_seconds_dmy)														
141	[leadership]	Section Header: NOTECHS Metrics Leadership	radio <table border="1"> <tr><td>1</td><td>1- Team leader (TL) not clear. TL does not assign roles. TL does not delegate tasks.</td></tr> <tr><td>2</td><td>2- Team leader (TL) clear. TL assigns some roles. TL does some tasks meant for others. TL transitions unclear.</td></tr> <tr><td>3</td><td>3- Team leader (TL) clearly recognizable at all times. TL assigns all roles. TL clearly delegates tasks. TL transitions are clear.</td></tr> </table>	1	1- Team leader (TL) not clear. TL does not assign roles. TL does not delegate tasks.	2	2- Team leader (TL) clear. TL assigns some roles. TL does some tasks meant for others. TL transitions unclear.	3	3- Team leader (TL) clearly recognizable at all times. TL assigns all roles. TL clearly delegates tasks. TL transitions are clear.								
1	1- Team leader (TL) not clear. TL does not assign roles. TL does not delegate tasks.																
2	2- Team leader (TL) clear. TL assigns some roles. TL does some tasks meant for others. TL transitions unclear.																
3	3- Team leader (TL) clearly recognizable at all times. TL assigns all roles. TL clearly delegates tasks. TL transitions are clear.																
142	[notech_cooperation_resource]	Cooperation/Resource Management	radio <table border="1"> <tr><td>1</td><td>1- Role identity of most team members not clear. Most team members idle most of the time.</td></tr> <tr><td>2</td><td>2- Role identity of some team members not clear. Some team members idle some of the time.</td></tr> <tr><td>3</td><td>3- All team members clearly identified, speak up if help needed. Few team members are idle.</td></tr> </table>	1	1- Role identity of most team members not clear. Most team members idle most of the time.	2	2- Role identity of some team members not clear. Some team members idle some of the time.	3	3- All team members clearly identified, speak up if help needed. Few team members are idle.								
1	1- Role identity of most team members not clear. Most team members idle most of the time.																
2	2- Role identity of some team members not clear. Some team members idle some of the time.																
3	3- All team members clearly identified, speak up if help needed. Few team members are idle.																
143	[communication_interactions]	Communication/Interactions	radio <table border="1"> <tr><td>1</td><td>1- Communication frequently</td></tr> </table>	1	1- Communication frequently												
1	1- Communication frequently																

			<p>inaudible or incoherent with many simultaneous conversations. Closed loop communication not used.</p>						
			<p>2- Communication not always through team leader. Communication not always clear. Closed loop communication not always used.</p>						
			<p>3- Communication is clear and through the team leader. Closed loop communication most of the time.</p>						
144	[assessment_decision_making]	Assessment/Decision Making	<p>radio</p> <table border="1"> <tr> <td>1</td><td>1- Elements of the primary and secondary survey not done. Multiple team members unclear about the next step</td></tr> <tr> <td>2</td><td>2- Elements of primary and secondary survey done, however out of order. Some team members unclear of next steps.</td></tr> <tr> <td>3</td><td>3- Primary and secondary survey done in order and without omissions, findings summarized. All team members clear of next steps.</td></tr> </table>	1	1- Elements of the primary and secondary survey not done. Multiple team members unclear about the next step	2	2- Elements of primary and secondary survey done, however out of order. Some team members unclear of next steps.	3	3- Primary and secondary survey done in order and without omissions, findings summarized. All team members clear of next steps.
1	1- Elements of the primary and secondary survey not done. Multiple team members unclear about the next step								
2	2- Elements of primary and secondary survey done, however out of order. Some team members unclear of next steps.								
3	3- Primary and secondary survey done in order and without omissions, findings summarized. All team members clear of next steps.								
145	[situational_awareness_cop1]	Situational Awareness/Coping with Stress	<p>radio</p> <table border="1"> <tr> <td>1</td><td>1- Unforeseen events or changes in patient condition preclude task completion. Most team members appear stressed. There is a lack of anticipation of next steps.</td></tr> <tr> <td>2</td><td>2- Unforeseen events or changes in patient condition caused minor delay but did not preclude task completion. Some team members appear stressed. Some anticipation of next steps.</td></tr> <tr> <td>3</td><td>3- Unforeseen events or changes in patient condition do not preclude task completion. None or few team members appear stressed. Clear anticipation of next steps.</td></tr> </table>	1	1- Unforeseen events or changes in patient condition preclude task completion. Most team members appear stressed. There is a lack of anticipation of next steps.	2	2- Unforeseen events or changes in patient condition caused minor delay but did not preclude task completion. Some team members appear stressed. Some anticipation of next steps.	3	3- Unforeseen events or changes in patient condition do not preclude task completion. None or few team members appear stressed. Clear anticipation of next steps.
1	1- Unforeseen events or changes in patient condition preclude task completion. Most team members appear stressed. There is a lack of anticipation of next steps.								
2	2- Unforeseen events or changes in patient condition caused minor delay but did not preclude task completion. Some team members appear stressed. Some anticipation of next steps.								
3	3- Unforeseen events or changes in patient condition do not preclude task completion. None or few team members appear stressed. Clear anticipation of next steps.								
146	[comments_notes]	<p>Comments/ Notes</p> <p><i>Use these section to fill in details not captured by other fields (e.g patient had an unexpected course, or an intervention performed not listed above)</i></p>	notes						
147	[tvr_data_complete]	<p>Section Header: <i>Form Status</i></p> <p>Complete?</p>	<p>dropdown</p> <table border="1"> <tr> <td>0</td><td>Incomplete</td></tr> <tr> <td>1</td><td>Unverified</td></tr> <tr> <td>2</td><td>Complete</td></tr> </table>	0	Incomplete	1	Unverified	2	Complete
0	Incomplete								
1	Unverified								
2	Complete								

Instrument: TVR Calculated Values (tvr_calculated_values)

148	[time_to_next_phase_of_care]	Time to next phase of care	calc Calculation: datediff([time_of_departure], [end_of_resuscitation], 'm')						
149	[handoff_length]	Handoff length	calc Calculation: datediff([ems_hand_off_end_time], [ems_hand_off_start_time], 'm')						
150	[time_to_first_set_of_vitals]	Time to first set of vitals	calc Calculation: datediff([first_sbp_hr], [patient_arrival], 'm')						
151	[time_to_iv_access]	Time to IV access	calc Calculation: datediff([iv_access_first_complete], [patient_arrival], 'm')						
152	[time_to_blood]	Time to blood	calc Calculation: datediff([transfusion_start_time], [patient_arrival], 'm')						
153	[time_to_first_procedure]	Time to first procedure <i>(Decision time for first procedure/intervention) - (Time patient arrival)</i>	calc Calculation: datediff(min([transfusion_start_time], [txa_start_time], [time_calcium_administered], [intubation_start_time], [cric_start_time], [cvc_start_time], [finger_thora_start], [chest_tube_start_time], [pelvic_binder_start_time], [reboas_start_time], [reboas_start_time], [cpr_start_time], [rosc_time], [ed_thoracotomy_start_t]), [patient_arrival], 'm')						
154	[resuscitation_time]	Resuscitation time <i>(End of resuscitation) OR (Time of death in trauma bay IF present) - (Time patient arrival)</i>	calc Calculation: if([time_of_death_in_bay] <> "", datediff([time_of_death_in_bay], [patient_arrival], 'm'), datediff([end_of_resuscitation], [patient_arrival], 'm'))						
155	[trauma_bay_dwell_time]	Patient trauma bay dwell time	calc Calculation: [time_of_departure] - [patient_arrival]						
156	[cpr_duration]	CPR duration <i>(Time of ROSC) - (CPR initiation)</i>	calc Calculation: [rosc_time] - [cpr_start_time]						
157	[tvr_calculated_values_complete]	Section Header: <i>Form Status</i> Complete?	dropdown <table border="1"> <tr> <td>0</td> <td>Incomplete</td> </tr> <tr> <td>1</td> <td>Unverified</td> </tr> <tr> <td>2</td> <td>Complete</td> </tr> </table>	0	Incomplete	1	Unverified	2	Complete
0	Incomplete								
1	Unverified								
2	Complete								

Instrument: Registry Data (registry_data)

158	[iss]	Section Header: <i>Injury Severity and Outcomes</i> Injury Severity Score (ISS)	text (number, Min: 1, Max: 75)
-----	-------	--	--------------------------------

159	[ais]	Abbreviated Injury Scale (AIS)	text (number, Min: 1, Max: 6)												
160	[survival_to_admission]	Survival to Admission	yesno <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>1</td><td>Yes</td></tr> <tr> <td>0</td><td>No</td></tr> </table>	1	Yes	0	No								
1	Yes														
0	No														
161	[hospital_length_of_stay_da]	Hospital Length of Stay (days)	text (number)												
162	[total_mechanical_ventilati]	Total Mechanical Ventilation (days)	text (number)												
163	[total_icu_length_of_stay_d]	Total ICU Length of Stay (days)	text (number)												
164	[survival_to_hospital_disch]	Survival to Hospital Discharge	yesno <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>1</td><td>Yes</td></tr> <tr> <td>0</td><td>No</td></tr> </table>	1	Yes	0	No								
1	Yes														
0	No														
165	[hospital_disposition]	Hospital Disposition	radio <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>1</td><td>Home</td></tr> <tr> <td>2</td><td>Skilled Nursing Facility</td></tr> <tr> <td>3</td><td>Acute Care Rehab</td></tr> <tr> <td>4</td><td>Other</td></tr> </table>	1	Home	2	Skilled Nursing Facility	3	Acute Care Rehab	4	Other				
1	Home														
2	Skilled Nursing Facility														
3	Acute Care Rehab														
4	Other														
166	[other3] Show the field ONLY if: [hospital_disposition]=4	Other	text												
167	[blood_products_transfused]	Section Header: <i>Early Interventions & Process</i> Blood products transfused first 24 hours	text (number, Min: 0, Max: 100)												
168	[trauma_activation_level]	Trauma activation level <i>1 is highest, 3 is lowest</i>	radio <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>1</td><td>1</td></tr> <tr> <td>2</td><td>2</td></tr> <tr> <td>3</td><td>3</td></tr> </table>	1	1	2	2	3	3						
1	1														
2	2														
3	3														
169	[age_at_the_time_of_present]	Section Header: <i>Demographic Information</i> Age (years) at the time of presentation	text (number, Min: 18, Max: 120)												
170	[race]	Race	radio <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>1</td><td>Asian</td></tr> <tr> <td>2</td><td>Native Hawaiian</td></tr> <tr> <td>3</td><td>American Indian</td></tr> <tr> <td>4</td><td>Black or African American</td></tr> <tr> <td>5</td><td>White</td></tr> <tr> <td>6</td><td>Other</td></tr> </table>	1	Asian	2	Native Hawaiian	3	American Indian	4	Black or African American	5	White	6	Other
1	Asian														
2	Native Hawaiian														
3	American Indian														
4	Black or African American														
5	White														
6	Other														
171	[ethnicity]	Ethnicity	radio <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>1</td><td>Hispanic</td></tr> <tr> <td>2</td><td>Non Hispanic</td></tr> </table>	1	Hispanic	2	Non Hispanic								
1	Hispanic														
2	Non Hispanic														

172	[sex]	Sex	radio <table border="1"> <tr><td>1</td><td>Male</td></tr> <tr><td>2</td><td>Female</td></tr> </table>	1	Male	2	Female								
1	Male														
2	Female														
173	[date_of_trauma]	Section Header: <i>Trauma Event & Pre-hospital Factors</i> Date of Trauma	text (date_dmy), Identifier												
174	[time_of_trauma]	Time of trauma <i>Time of arrival from trauma registry</i>	text (time), Identifier												
175	[icd_10_primary_external_ca]	ICD-10 Primary External Cause Code	text												
176	[icd_10_additional_external]	ICD-10 Additional External Cause Code	text												
177	[transport_mode]	Transport Mode	radio <table border="1"> <tr><td>1</td><td>Gr Amb</td></tr> <tr><td>2</td><td>Heli Amb</td></tr> <tr><td>3</td><td>Fixed-wing Amb</td></tr> <tr><td>4</td><td>Private</td></tr> <tr><td>5</td><td>Police</td></tr> <tr><td>6</td><td>Other</td></tr> </table>	1	Gr Amb	2	Heli Amb	3	Fixed-wing Amb	4	Private	5	Police	6	Other
1	Gr Amb														
2	Heli Amb														
3	Fixed-wing Amb														
4	Private														
5	Police														
6	Other														
178	[other4] Show the field ONLY if: [transport_mode]=6	Other	text												
179	[inter_facility_transfer]	Inter-facility Transfer	yesno <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>0</td><td>No</td></tr> </table>	1	Yes	0	No								
1	Yes														
0	No														
180	[pre_hospital_cardiac_arrest]	Pre-hospital Cardiac Arrest <i>Based on EMS report, trauma registry</i>	yesno <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>0</td><td>No</td></tr> </table>	1	Yes	0	No								
1	Yes														
0	No														
181	[intubation_prior_to_arrival]	Intubation Prior to Arrival	yesno <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>0</td><td>No</td></tr> </table>	1	Yes	0	No								
1	Yes														
0	No														
182	[ed_arrival_time]	Section Header: <i>Emergency Department Presentation & Initial Assessment</i> ED Arrival Time <i>Based on trauma registry</i>	text (datetime_dmy), Identifier												
183	[initial_ed_sbp]	Initial ED SBP	text (number, Min: 0, Max: 240)												
184	[initial_ed_pulse_rate]	Initial ED Pulse Rate	text (number, Min: 0, Max: 220)												
185	[initial_ed_temperature]	Initial ED Temperature (Celsius)	text (number, Min: 22, Max: 42)												
186	[initial_ed_respiratory_rate]	Initial ED Respiratory Rate	text (number, Min: 0, Max: 60)												
187	[initial_ed_oxygen_]	Initial ED Oxygen Saturation	text (number, Min: 1, Max: 100)												

	<code>saturati]</code>	<i>Percentage</i>							
188	<code>[initial_ed_gcs_eyes]</code>	Section Header: <i>GCS</i> Initial ED GCS Eyes	text (number, Min: 1, Max: 4)						
189	<code>[initial_ed_gcs_verbal]</code>	Initial ED GCS Verbal	text (number, Min: 1, Max: 5)						
190	<code>[initial_ed_gcs_motor]</code>	Initial ED GCS Motor	text (number, Min: 1, Max: 6)						
191	<code>[initial_ed_gcs_total]</code>	Initial ED GCS Total	text (number, Min: 3, Max: 15)						
192	<code>[initial_ed_weight]</code>	Section Header: <i>Patient Comorbidities & Baseline Health Status</i> Initial ED Weight (Kg)	text (number, Min: 1, Max: 300)						
193	<code>[anticoagulant_therapy]</code>	Anticoagulant Therapy	yesno <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>1</td><td>Yes</td></tr> <tr> <td>0</td><td>No</td></tr> </table>	1	Yes	0	No		
1	Yes								
0	No								
194	<code>[bleeding_disorder]</code>	Bleeding Disorder	yesno <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>1</td><td>Yes</td></tr> <tr> <td>0</td><td>No</td></tr> </table>	1	Yes	0	No		
1	Yes								
0	No								
195	<code>[chronic_copd]</code>	Chronic COPD	yesno <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>1</td><td>Yes</td></tr> <tr> <td>0</td><td>No</td></tr> </table>	1	Yes	0	No		
1	Yes								
0	No								
196	<code>[chronic_renal_failure]</code>	Chronic Renal Failure	yesno <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>1</td><td>Yes</td></tr> <tr> <td>0</td><td>No</td></tr> </table>	1	Yes	0	No		
1	Yes								
0	No								
197	<code>[cirrhosis]</code>	Cirrhosis	yesno <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>1</td><td>Yes</td></tr> <tr> <td>0</td><td>No</td></tr> </table>	1	Yes	0	No		
1	Yes								
0	No								
198	<code>[congestive_heart_failure]</code>	Congestive Heart Failure	yesno <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>1</td><td>Yes</td></tr> <tr> <td>0</td><td>No</td></tr> </table>	1	Yes	0	No		
1	Yes								
0	No								
199	<code>[functionally_dependent_health]</code>	Functionally Dependent Health Status	yesno <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>1</td><td>Yes</td></tr> <tr> <td>0</td><td>No</td></tr> </table>	1	Yes	0	No		
1	Yes								
0	No								
200	<code>[icd_10_injury_diagnoses]</code>	Section Header: <i>Diagnoses</i> ICD-10 Injury Diagnoses	text						
201	<code>[registry_data_complete]</code>	Section Header: <i>Form Status</i> Complete?	dropdown <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>0</td><td>Incomplete</td></tr> <tr> <td>1</td><td>Unverified</td></tr> <tr> <td>2</td><td>Complete</td></tr> </table>	0	Incomplete	1	Unverified	2	Complete
0	Incomplete								
1	Unverified								
2	Complete								

