Meet the Krash Family



"Get in the van, kids! We're running late!"

The Krash family of four is headed to Grandpa Krash's 90th birthday party, and they're off to a hectic start. Father Jimmy, 43, is at the wheel, impatient because his two kids (JJ, 17 and Ramona, 7) were slow to get ready to leave and now they're running behind.

On this late November afternoon, they're traveling down Big River Road - a rural highway - at approximately 65 mph in a minivan, with temperatures dipping down into the 30's.

"Jimmy, slow down – you're going too fast for these curvy country roads!"

Jimmy's wife Jane is nervous because Jimmy is hurrying more than she thinks is safe. Suddenly, just as they reach a blind curve, a deer darts out into the road causing him to jerk the wheel. Tires screeching on the asphalt, the minivan loses control and rolls down a four-foot embankment, flipping over and landing on its top, with the Krash family still inside.

A passing motorist approaches a few minutes later and notices the fresh disturbance in the guardrail. Horrified at the possibility of a recent accident, she stops to investigate and notices the overturned minivan. She yells to the family that she's getting help and rushes to call 911 for an ambulance, describing the scene as best she can.

Folsom County Fire and EMS crews arrive within nine minutes of dispatch, and identify our four patients who are still inside the vehicle.

A teenage boy appears to be trapped in the third row of the minivan, but the other three patients are removed while crews work to stabilize the vehicle. A helicopter is dispatched to scene.

EMS personnel report they're smelling gas and, after a careful investigation, identify a gas leak coming from the van.

To everyone's horror, the van is suddenly engulfed in flames despite efforts from emergency crews, with the teenager still inside.

Crew work quickly to remove JJ from the van. After 23 minutes from the EMS crew's initial arrival, the patient is extricated.



JJ Krash

JJ is a 17-year-old unrestrained passenger seated in the 3rd row of the family's van. After extrication from the vehicle he is transported to Man in Black Medical Center, a level 3 trauma center, by Folsom County Fire and EMS. Following evaluation of his burns, IV infusion and application of dressings to his burns, it was determined his need for a verified burn center and was transferred to Ring of Fire Burn Center approximately two and half hours later.



Ramona Krash

Ramona is a passenger in the middle row on the driver's side of the family vehicle. She was restrained with lap belt only; Ramona is 7 years old. After being triaged on the scene she was transported to Man in Black Medical Center; a Level 3 trauma center. Further evaluation at the trauma center and an unsuccessful orthopedic procedure determined her need to be at a pediatric facility for her multiple injuries. Ramona was transferred to Rowboat Children's Hospital via Get Rhythm Air Medical Services where she was diagnosed with multiple injuries. Ramona was later was taken to surgery for her orthopedic injuries.



Jimmy Krash

Jimmy is a 43-year-old male who was restrained in a 3-point seatbelt and the driver of the minivan. Jimmy was intubated on the scene and taken via Get Rhythm Air Medical Services to Walk the Line Hospital, a Level 1 trauma center for evaluation of multisystem injuries. Following admission he was taken to surgery for his head injury. A few days post-op he suffered an unplanned event requiring readmission to the ICU. Jimmy was cleared for discharge to a rehabilitation facility.



Jane Krash

Jane is a 38-year-old female who is an unrestrained front seat passenger in the van. Upon EMS arrival she is in full cardiac arrest. EMS providers placed an IO and began CPR. She was transported to Man in Black Medical Center, a Level 3 Trauma Center. Jane had no vital signs on arrival and is in PEA. Multiple procedures were done upon arrival in attempts to resuscitate her. Without success, Jane succumbed to her injuries and died.

Folsom County Fire and EMS RUN REPORT

Prehospital Patient Care Chart

			INCIDENT N 33-4556	IUMBER	EMS RESPON	SE NUMBER	E NUMBER CALL SIGN		VEHIC	VEHICLE # INCIDENT 0 11/17/2017			
INCIDENT ADDRESS Big River Road						INCIDENT Jackson	CITY	1	ING	CIDENT ST	TATE	INCIDE 51503	NT ZIP CODE
INCIDENT COUNTY				INCIDE	NT LOCATION				10.			31303	
Folsom				Street									
INCIDENT/PATIENT D Treated, Transport E Treated, Transferred	ISPOSITION	ON ☑ No Pa	tient Found	ver PRIMA	EMERGEN No		e-arriva t pre-a	ATCH PERFOR al instructions arrival instruction	ns			LEVEL OI ☐ BLS, E ☐ BLS, E ☐ BLS, A ☐ ALS, A	MT EMT
Refused Care Treated & Released Treated, Transported Treated, Transported	d Private \ d Law Enf	Dead Vehicle	at Scene	☐ Pt		☐ Yes Unk	if pre-	arrival instructio	ns given			□ ALS, P□ ALS, N□ ALS, P	aramedic Iurse
TYPE OF SERVICE RE	☑ 911 Response ☐ ED to ED ☑ Transfer ☐				MARY ROLE OF THE UNIT Transport								
# OF PATIENTS ON SCENE	PATIENTS ON MASS CASUALTY E Yes Igle None No							☐ ALS, L ☐ Specia Transport ☐ Helicor ☐ Not Ap	evel 2 lty Care				
DATIENT LAGENAME						DATIENTE	I						
PATIENT LAST NAME						JJ	RSIN	IAME					MI
Krash PATIENT ADDRESS	☐ SAME	F AS IN	CIDENT			PATIENT CI	TY		PATII	ENT STAT	F	PATIF	NT ZIP CODE
				IDTU	GENDER	174112141 01		- DAGE			_		
AGE 17			DATE OF B I 8/9/2000	IKIH	GENDER ☐ Female ☑ I	Male		RACE Black					
CURRENT MEDICATIONS ALLERGIES PERTINENT HISTORY								Υ					
None UNK													
INJURY PRESENT ☐ Yes ☐ No				☐ Blunt ☐ Penetrating ☐ Burn ☐ Not Known ☐ u			LCOHOL/DRUG None Smell of alcoh	ol on bre	eath	☐ Pt ad ☐ Pt ad	dmits to dr dmits to al		
CHIEF COMPLAINT Burn s/p MVC							_ _	Alcohol and/or	r drug pa	irapnernalia		ION COD	E
CHIEF COMPLAINT A	NATOMIC	LOCA	ΓΙΟΝ			CHIEF COM	PLAIN	T ORGAN SYS	TEM				
☐ Abdomen☐ Chest☐ Head	□ B	Extremity Back Neck	/ Lower	☐ General, ☐ Extremit ☐ Genitalia	y Upper		☐ Global ☐ Renal Cardiovascular ☐				Pulmonary		
CARDIAC ARREST	RESI	USCITA	TION			☐ Psych	CARD	IAC ARREST	Skin		∐ Mus	culoskelet	al
☐ Yes, Prior to Arrival☐ Yes, After Arrival☐ No	☐ De	efibrillati entilation	on	☐ None-DI ☐ None-DI ☐ None-Si	NR	☐ Presumed ☐ Trauma ☐ Drowning	d Card	liac	Respirator Electrocut Other	ry tion	Unkı	nown	
USE OF SAFETY EQU	IPMENT									AIRBAG D	DEPLOYM	IENT	
☐ N/A ☑ Not Known ☐ Child Restraint		∟ap Belt Helmet V Eye Prote			r Belt /e Non-Clothing (I Floatation Devic	Gear 🔲	Proted Other	ctive Clothing		☐ None P☐ Not De☐ Deploy	resent ployed	□ Dep	loyed Front loyed Side
BARRIERS TO EFFEC ☐ Development Impair ☐ Physical Restraint	ed 🔲 P		y Impaired ious	☐ Unattend	ded/Unsupervised	d ☐ Heari ☐ Spee			one				
RESPONSE MODE				ORT MODE	Initial Call for H			15:34	Unit Left	Scene			16:11
□◀	Lights/	/Sirens		ightharpoons	Unit Notified			15:34	Patient a	arrived at D	estination		16:24
	No Lights/	/No Sire	ns —	→ □	Unit En Route			15:36	Transfer	of Patient	Care		:
☐ Initial Lights/Sire	Arrive on Scene)		15:43	Incident	Completed	i		:				
☐ Initial No Lights/Sirens Upgraded to Lights/Sirens													
PRIOR AID PERFORMED BY		<u> </u>		DICATIONS/ P	ROCEDURES			OUTCOME	:				
- I MEDIOATION			2.3,(110140/1	JOLDONLO			33 TOOME						

				INCIDENT	NUMBER			U	NIT ID			INCIDENT DAT	E
TRAUMA TRI	AGE CRITERIA		·	33-4556								11/17/2017	
□ 2nd/3rd burn face/feet/h □ Amp prox to □ Decreasing □ GCS Motor □ GCS Total □ Head/neck/□ Extremity ir □ Extremity c	>10% BSA or and/genital/airw o wrist/ankle LOC >4 ≥13 ftorso crush nj w/neurovasc or rush	<i>a</i> y	☐ LOC ≥5 ☑ Mech of ☐ Did not r ☐ Pen inj r ☐ Pen inj r ☐ Spinal c	w/abd tender/ distantininininin meet any triage crite ead/neck/torso word inj Considerations	eria w/neurova	☐ Tension pneumothorax ☐ Resp <10 or >29 ☐ Required intubation ☐ SysBP <90, or no radial puls			ax	PEDS ONLY ☐ Poor perfusion ☐ Resp distress/failure			
☐ Torso inj w	pelvic fx			humerus/femur fxs									
SYMPTOMS PRIMARY=P ASSOCIATED=A P A P A □ None □ Mass/Lesior □ Bleeding □ Mental/Psyc □ Changes in Responsiveness □ Pain □ Choking □ Palpitations □ Death □ Rash/Itching □ Device/Equip Prob □ Swelling □ Diarineae □ Transport O □ Drainage/Discharge □ Weakness □ Fever □ Wound				sion Property Propert	ch					lectrocu yperthe ypother ypovole halation halatio eath oisoning	rmia mia emia/shock n/toxic gas n/smoke g/drug OD	/=S	listress e assault/rape bites /CVA pe
MEDICATION							_		1				
TIME	MEDICATION					DOS	SE		ROUTE		REACTION	S See Ref. Sheet	
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PROCEDURE											-1		
15:52	PROCEDURE IV L AC; LR			# A I	TEMPT	5	SUCCESSI		COMPLICA	ATIONS See Ref. She	eı		
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:									☐ YES ☐	NO			
:									☐ YES ☐	NO			
:									☐ YES ☐	NO			
VITAL SIGNS	_		0.40.55		1 5505		ì	00.0	. –	000		See Ref. Sheet	000110705
15:51	PULSE 100		SYS BP 112	DIA BP	RESF 24			02 S	41	GCS	EYE	GCS VERBAL 5	GCS MOTOR 6
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ADV DIRECTI State DNR Other Heal	Form		amily Request DN		iving Will Other			INATION Blac	k Medical Ce	nter			
TYPE OF DES ☑ Hosp ED/O ☐ Other EMS ☐ Other EMS ☐ Other	REASON FOR CHOOSING DESTINATION DOCK/L&D Closest On-line Med Company On-line M								DISPOSITION Admit-floor Admit-ICU Death Discharge Fransfer-other			HOSPITAL DISPO	hosp ng home
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_	and fluids be		, caugin ine just	ao pationi was 6/	routou.	. 2011		antol	arrival palle	. n ioac	ica iino ailii	Jaianoo. Anno W	ao piaooa iii tiio
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CREW MEMB	MEMBER CREW MEMBER CREW MEMBER									<u></u>			

HISTORY & PHYSICAL

Patient Name: Krash, JJ

Date: 11/17/2017

Mechanism of Injury: MVC back passenger in 3rd row of van, unknown restraint, burns from vehicle

igniting.

Injuries: 8% TBSA, full thickness with blistering burns to RLE, circumferential, 1st degree burn to RUE,

rt hand, hypothermia 34.9 C

Other Medical Problems: none

Incidental Findings: None

Admission Plan of Care: transfer out to burn center

Chief Complaint(CC): Multiple Trauma with 8% TBSA burns

History of Present Illness (HPI): 17yom, unrestrained 3rd row backseat passenger of van involved in MVC with loss of control and down an embankment, landing on its top, reported patient's vehicle engulfed in flames. Pt was trapped for approximately 23 minutes, extricated just as vehicle catches on fire. Transport via ambulance, 'Folsom County Fire and EMS'

Past Medical History (PMH): none

Past Surgical History: none

Social history:

Smoking status: No
Smokeless tobacco: No
Alcohol use: No

Social History Main Topics

Smoking status: Never Smoker
 Smokeless tobacco: Never Used

Alcohol use
Drug use:
No

Sexual activity: Not on file

Family history: Not on file

Medications: None

Allergies:

Allergies not on file

REVIEW OF SYSTEMS [List positives and pertinent negatives]:

Constitutional Symptoms:

Eyes:

Ears, Nose, Mouth, Throat: Clear, non carbonaious color or sputum

Cardiovascular: S, S2 normal monitor ST **Respiratory:** Chest symmetrical, lungs clear

Gastrointestinal: Active bowel sounds, soft nontender

Genitourinary: Normal

Musculoskeletal: MAE strongly and equal, full ROJM

Skin/Breast: 8% full thickness burn with blistering to RLE, partial thickness burn RUE right hand

Neurological: GCS 15, PERLA @ 3mm

Psychiatric: noncontributory **Endocrine:** noncontributory

Hematologic/Lymphatic: noncontributory

Allergic/Immunologic: NKA

PHYSICAL EXAM:

Initial Vital Signs

BP 115/65 mmHg | **Pulse** 85 | **RR** 18 | **Temp:**34.9 | **Ht** not on file | **Wt** 18.6 kg (x lb) | **SpO2** 100%

PRIMARY SURVEY

AIRWAY: Patent, trachea midline. Phonation is normal.

BREATHING: Symmetric chest rise and fall. Breath sounds present bilaterally.

CIRCULATION: No active signs of bleeding, strong distal and central pulses. Skin cool, dry and pale

DISABILITY: Moves extremities normally x 4. No lateralizing neurologic signs. Pupils 3 mm equal and reactive

bilaterally.

Glascow Coma Scale:

EYES = 4 **VERBAL** = 5 **MOTOR**= 6 **GCS** = 15

SECONDARY SURVEY

GENERAL: AOx3, in no acute distress

HEAD/FACE, EYES, ENT: Head atraumatic, ENT exam normal, conjunctivae/corneas clear. PERRL,

EOM's intact. No battle signs or raccoon eyes present

NECK: Supple without obvious injury

CHEST/RESPIRATORY: Resp: No chest wall deformities or tenderness, resp effort normal. No wheezing,

rhonchi or rales

CVS: RRR, no murmurs, gallops or rubs

ABDOMEN/GI: exam normal

PELVIS: stable with no gross deformities, without obvious tenderness to palpation

GU and RECTAL: no gross hematuria, no trauma or blood indicated **BACK / TLS SPINE:** No obvious tenderness or bony step off deformities

EXTREMITIES/MSK: Burns to rt hand, 1st degree

SKIN: TBSA 8%, 3rd degree burns to RLE, circumferential

NEURO: No motor or sensory abnormalities

PSYCH:

Laboratory Results: Trauma panel within normal limits

Labs:

Imaging (if any) During ED Visit:

Medications Ordered/Given During ED Visit:

Diagnosis: 8% TBSA, 3rd degree burns to RLE, circumferential, 1st degree burn to RUE, rt hand, hypothermia 34.9 degrees

Medical Decision Making: transfer out to burn center

Disposition: transfer out to Ring of Fire Burn Center

Emergency Services Trauma Flow Sheet

Example

Man In Black Medical Cen	ter		Birthda	sh 17yo male ite: 08/09/2000 01010101			
Date: 11/17/2017		Patien	t Arrival Time:	16:24			
		V/A Pre-Hospital Tre	atment				
Transporting Ambulance Folsom Co							
O2 @ 2_L/min/	IV: Nee	dle size_#18 L AC	X_1	Backboard			
NC NRB Ambu	LR			Long Short Ked			
Airway	Medica	tions		Scoop			
Oral Nasal Other			Bi	lateral Head Supports			
ET tube #@ cm	C-Colla	r on: Yes_XNo	Sp	lint on			
	- T			Ice on			
CPR started @ (time)			Dr	Dressing			
				Other			
Date of Injury: <u>11/17/2017</u>	Time of	f Injury: unk	Pre-hospi X Yes	tal trauma team alert notification: No			
Hospital Trauma Team Activation Ye	es_X No	_ Time of Trauma T	eam Activation: 10	5:13			
Trauma Tean	n Members		## 701 x 544 902 + 847 5 2 2 4 5 2 4 5 5 5 5 5 5 5 5 5 5 5 5 5	Type of Vehicle			
Team members notified:	Time Called	Time Arrived	X Car	Pedestrian			
% Nurses x	613	1620	Truck	ATV			

Trauma Team Members									
Team members notified:	Time Called	Time Arrived							
% Nurses x	1613	1620							
% Physician / CNP / PA	1613	1628							
‰ Lab	1613								
% X-ray	1613	1619							
% Other	-								

X Car	Pedestrian	
Truck	ATV	
Motorcycle	Boat	
Bicycle		
Other		

	Mechanism of I	njury	Restraint Devices			
Speed of vehicle	65 MPH	Rollover	Lap belt	Airbag deployed		
Number of vehicles		Ejected	Shoulder belt	Helmet		
1 2 3 >3		Rearend	Car seat	Unrestrained		
Steering wheel deformity		T-Bone				
Starred windshield		Head on				

Fall	Penetrating	Blunt	Thermal	Other
% Fell from:	_ % GSW		Burn	% Hanging
	% Stabbing	% Crush	% Heat exposure	% Near drowning
Height ft.	% Other	% Other	% Cold exposure	% Animal related

Example

Emergency Services Trauma Flow Sheet

Initial Assessment

E EUL				AIRWAY			DISA	BILIT	ſΥ	
ΧP	aten	t		Suctioning			Glasgow Coma Score	е	Initial	Disch
Ora	l Air	way		Bag Mask			Eye Opening			
Nas	al Ai	irway		O2 2 L.			Spontaneously	4	4	
ET		-		Comments			To Speech (Shout)	3	"	4
Tra	ch _						To Pain	2		
Cric	co						No Response	1		
				BREATHING			Verbal Response			
		Spontaneous]	Respiratory Effor	rt	Oriented (Coos, Babbles)	5		
R Y	L X	Lung sounds		X Normal Shallow	Agonal Nasal f		Confused (Consolable, Cry)	4	5	
		Clear Rales		Stridor Dyspnea	Tachyp Gruntin	nea	Inappropriate Words (Persistent Cries, Screams)	3		5
		Rhonchi/Whe	ezes	Retracting	Absent		Incomprehensible	2		
		Decreased Absent		Intercostal Substernal	Parado: Cough	xicai	Words (Grunts, Restless) No Responses	1	-	
Smo	l oker	Yes	X No	Unk	Cough		Motor	1		
SIIIC	JKCI	168		IRCULATIO	7	what property are the	Obeys (Spontaneous)	6		
Can	illary	y Refill:	Nor	The second secon		ormal (< 2 sec)	Localized Pain	5	1	
_		resent:	Car	•	PANAL TOND TOND AND A	Pedal	Withdrawal to Pain	4	1 _	6
		Pulse	X Reg		Irregular		Flexion to Pain	3	6	"
•	rt tor		_	Audible Absent		(Decorticate)				
		Vein Distension X No Yes			Extension to Pain	2	1			
_	eding			trolled Ur	lled Uncontrolled X NA		No Response to Pain	1	1	
	ı Col	8					15	15		
			X P	allor	Cyanotic	;	Total GCS Score			
			Flu	shed	Mottled					

				Area of Injury	
Allergie	s <u>none</u>				}
: Tetanus	: LMP: NA	Wt: unk	-	()	
	Proce	edures		-	,)
Time	Procedure	Results		~:11 I\	//
	ET Tube	Size Secured @ cm FiO2 %			
PTA	Central Line/ IV PIV LAC	Size 18 From Site LAC Solution_		J Jahren J	-) Cut
16:27	Warming Measures	X Fluids Mechanical X Bair Hugger X Blankets	4% 3rd		4% 3rd
	NG Tube	Size	4		U
	Foley / Quick Cath	Size Color	A = Abrasion	Fc = Closed Fracture	OW = Open Wound
	Neck immobilization	CMS:	B = Burns	Fd = Dislocation	P = Paralysis
	C-Collar Applied: PTA	Before	C = Crepitus	Fo = Open Fracture	S = Edema
		After	D = Deformity	L = Laceration	Ta = Total Amputation
	Splinting	Location:	E = Ecchymosis		Na = Near Amputation
		—			40

Emergency Services Trauma Flow Sheet

Example

Secondary Assessment

	Hea	id/Scal	p			Eye	s			Mou	th		Ears		
X Inta	ct		Rash		X PEARL				X Int	act		X No drain	age		
Lacera			Burns		Raccoon				Tee	th		Drainage			
Abrasi			Pain	*	EOMS:	follows				ssing teet		Right	Left		
Bruisir	ıg		Battle		Visual A	Acuity OI	O/_		De	ntures int	act	Clea	r Clear		
			Signs			O	S/		Co	mments_		_ Bloc	od Clear		
		N	eck						Ch	A STATE OF THE PARTY OF THE PAR			Heart Sounds		
Intact					Collar		metrical						X Present		
Swellin				Pa	in		metrical						Distant		
	a midli						oxical mov	emen	t		of onset		Absent		
	a devia					Loca			-		ity @ on	set			
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Difficu	uty swa	llowing	5			Loca	-	/ D . L	···/OII	ther	rsused a sector				
				Ah	domen		Abdomen	Pen	The second second second second	Bowel So	nnde		Pelvis		
X Sof	ř		Dister			Last Intak	ro·	1000		Present	unus	X Intact	CIVIS		
X Nor	Contract Con		Rigid	lucu	,		breakfast			Absent		Pain			
Tender			Idgid			Liquid				Aosent Hyperact	iva	Blood at mea	otuo		
Comm						Liquid				Hypoacti			um		
Сопш	сціз.					***************************************				пуроасы	vc	Instability	.um		
												шѕаошцу			
				Po	sterior						E	tremities			
X Inta	ct						V	I	ntact						
Deform	nity							F	racture						
Pain								XI	Pain						
Comm	ents								Deformit	У					
										•	BSA RL	E, 3rd° circumfe	rential, 1st° RUE		
naibuikie se	Table 1		Thursday, 1		and the second of the second										
							C-clony		action J-unequal		Scale	_ Co	mments		
Time	Tem	P	R	E	P Sa		R-hriel	,	D-dilated	(i)	Pain				
	p					L/r	F-TIXEC] •	= - Equal	Scale	Туре				
16:25	34.9	85	18	115/P	100	2L	Righ	01700-2101	welling Left	7	-31-	Marm blanket	s and bair hugger		
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1830	37.0	82	16	1		2L				5					
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							Medicati	799312777	AND DESCRIPTION OF THE PERSON						
			Med	ication	<u> </u>			Dos		Ro	ute	Time Given	Initials		
<u>Fentany</u>	/l						50m	g		V		1645	BTS		
Zofran							4mg			V		1642	BTS		
Fentany	/l						50mg			V		1815	BTS		
TDAP						0.5m	g		M		1800	BTS			

Emergency Services Trauma Flow Sheet

Example

	Input		Output						
Source	Prior to Arrival	ED	Total	Source	Prior to Arrival	ED	Total		
LR			1.5L	Urine		200			
				Emesis					
				Chest Tube					
				Other					
Blood									
Fresh Frozen Plasma									

Personal Belongings

Clothes Tersonar Belongings	
Purse	*
Wallet	
Jewelry	
Given to:	
Name	
Relationship	
Nursing Staff	
Nurse Notes: 17 yo male, unrestrained, 3 rd row passenger in vehicle, arrived at 16	24 with burns to RUE and
RLE following a rollover MVC that caught fire as patient was being extricated. IV place	ed by EMS prior to
arrival. Full thickness wounds on right leg, circumferentially and 1st degree burn on right	th forearm. 12% TBSA.
Patient hypothermic upon arrival. Dr Benny requested transferred to burn center for t	reatment of wounds. Burne
area covered with dressing. 1844 patient transferred to Ring of Fire Medical Center by	I've heen Everywhere
Ambulance.	- Ve been Byery Where
Ampulance.	
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	,
DN Signature: BTS	

HISTORY & PHYSICAL

Man in Black Medical Center

Level III Trauma Center

Patient Name: Krash, Ramona

Date: 11/17/2017

Mechanism of Injury: MVC backseat passenger, lapbelt restraint only

Injuries: GR3 Spleen Lac, L tib/fib fxs, Mult Abras, Mult Contusions, and RFA lac

Other Medical Problems: asthma, ADHD

Incidental Findings: None

Admission Plan of Care: OR for reduction of tib/fib fx, nonoperative treatment for GR3 Splenic Lac

Chief Complaint(CC): Multiple Trauma

History of Present Illness (HPI): 7yof, lap belt only restrained middle backseat passenger of van involved in MVC with loss of control and down an embankment, landing on its top, reported patient's vehicle engulfed in flames. Patient without burn injuries. Transport via Folsom County Fire and EMS

Past Medical History (PMH): none

Past Surgical History: none

Social history:

Smoking status: No
Smokeless tobacco: No
Alcohol use: No

Social History Main Topics

Smoking status: Never SmokerSmokeless tobacco: Never Used

Alcohol useDrug use:No

Sexual activity: Not on file

Family history: Not on file

Medications: Albuterol inhaler for asthma, Adderall

Allergies:

Allergies not on file

REVIEW OF SYSTEMS [List positives and pertinent negatives]:

Constitutional Symptoms:

Eyes: NEGATIVE

Ears, Nose, Mouth, Throat: ENT EXAM NORMAL

Cardiovascular: S1 AND S2 NORMAL

Respiratory: NORMAL BREATH SOUNDS, NO RESPIRATORY DISTRESS, NO WHEEZING **Gastrointestinal:** Abdomen soft with guarding, tenderness with concern for organ injury

Genitourinary:

Musculoskeletal: LLE obvious deformity, RUE obvious deformity, distal pulses are palpable in It foot and RUE, Neuro intact at distal Lt Lower Extremity, otherwise moving extremities appropriately. RUE FA 3cm lac.

Skin/Breast: Normal coloration and turgor, no rashes, no suspicious skin lesions noted. RUE FA lac

Neurological: No motor or sensory abnormalities

Psychiatric: Affect normal, Mood normal, Judgment normal.

Endocrine:

Hematologic/Lymphatic: Allergic/Immunologic: NONE

PHYSICAL EXAM:

Initial Vital Signs

BP 113/60 mmHg | Pulse 85 | RR 20 | Temp:98.4| Ht not on file | Wt 18.6 kg (x lb) | SpO2 100%

PRIMARY SURVEY

AIRWAY: Patent, trachea midline. Phonation is normal.

BREATHING: Symmetric chest rise and fall. Breath sounds present bilaterally.

CIRCULATION: Pulses 2+ throughout.

DISABILITY: Moves extremities normally x 4. No lateralizing neurologic signs. Pupils 3 mm equal and reactive

bilaterally.

Glascow Coma Scale:

EYES = 4 **VERBAL** = 5 **MOTOR**= 6 **GCS** = 15

SECONDARY SURVEY

GENERAL: AOx3, in no acute distress

HEAD/FACE, EYES, ENT: Head atraumatic, ENT exam normal, conjunctivae/corneas clear. PERRL,

EOM's intact. No battle signs or raccoon eyes present

NECK: Supple without obvious injury

CHEST/RESPIRATORY: Resp: No chest wall deformities or tenderness, resp effort normal. No wheezing,

rhonchi or rales

CVS: RRR, no murmurs, gallops or rubs

ABDOMEN/GI: Abdomen soft with guarding, tenderness with concern for organ injury, CT Abdomen confirms GR3 Spleen Lac

PELVIS: stable with no gross deformities, without obvious tenderness to palpation

GU and RECTAL: no gross hematuria, no trauma or blood indicated **BACK / TLS SPINE:** No obvious tenderness or bony step off deformities

EXTREMITIES/MSK: LLE obvious deformity, RUE obvious deformity, distal pulses are palpable in It foot and RUE, Neuro intact at distal Lt Lower Extremity, otherwise moving extremities appropriately. RUE FA 3cm lac. Imaging confirms Lt Tib/Fib Fxs

SKIN: Normal coloration and turgor, no rashes, no suspicious skin lesions noted. RUE FA lac

NEURO: No motor or sensory abnormalities

PSYCH: Affect normal, Mood normal, Judgment normal.

Imaging (if any) During ED Visit:

Study Results:

CT-TRAUMA ABD/PEL W CON

Study Result

PROCEDURE: CT-TRAUMA ABD/PEL W CON

DATE OF EXAM: 11/17/2017

DEMOGRAPHICS: 7 years old Female

INDICATION: Trauma, Abdominal Injury

Contrast utilized and the relevant clinical information: History: Trauma

COMPARISON: No existing relevant imaging study corresponding to the same

anatomical region is available.

TECHNIQUE: Contiguous axial slices of the abdomen and pelvis were submitted after the IV administration of contrast. No oral contrast was utilized. Additional coronal reformatted images were submitted.

DOSE OPTIMIZATION: CT radiation dose optimization techniques (automated exposure control, and use of iterative reconstruction techniques, or adjustment of the mA and/or kV according to patient size) were used to limit patient radiation dose.

FINDINGS:

CT ABDOMEN:

Inferior chest: The lung bases are clear. The heart size is normal. There is no pericardial or pleural effusion.

Gallbladder: The gallbladder is distended with a smooth thin wall.

Biliary tree: There is no evidence for intra-or extrahepatic biliary ductal dilatation.

Liver: The liver demonstrates normal appearance. No focal abnormalities are seen. Normal contrast enhancement is noted.

Spleen: Grade 3 Spleen Lac.

Pancreas: Normal morphology without masses or inflammatory changes.

Adrenals: Normal size without masses.

Kidneys: Normal size and morphology. No masses or hydronephrosis. No stones are identified. Delayed images show excretion of contrast into non-dilated renal collecting systems.

Vasculature: No evidence of aneurysm or other significant vascular pathology. No evidence of dissection.

Lymphatic system: No pathologically enlarged lymph nodes are seen.

Bowel: The stomach is normally distended with no focal wall abnormality. The duodenum is normal in caliber along its course. No focal abnormality is seen. The small bowel is normal caliber. There is no focal stricture or dilatation. The colon is normal in caliber. No focal abnormality is seen. The appendix is seen and is normal.

Peritoneal structures: No evidence of free air or free fluid. No masses. The omentum and small bowel mesentery are normal.

Retroperitoneum: No focal retroperitoneal abnormality is seen.

Abdominal wall: The visualized portions of the abdominal wall are within normal limits.

CT PELVIS:

Urinary bladder: The urinary bladder is distended with a smooth thin wall. No focal abnormalities are seen. No posterior filling defects are seen on delayed phase imaging.

Soft tissues: No other significant abnormalities in the pelvic structures. No free fluid or lymphadenopathy. The ischiorectal fossa and inguinal regions are normal.

Bones: No significant abnormalities in the bony pelvis.

IMPRESSION:

1. Grade 3 Spleen Lac

EXAMINATION: CT-EXT LWR LEFT WO CON

DATE OF EXAM: 11/17/2017

DEMOGRAPHICS: 7 years old Female

INDICATION: History: Lt Tib/fib fx. Number of Series/Images: 9.

COMPARISON: none

TECHNIQUE: Contiguous axial slices of the left lower extremity were submitted without IV administration of contrast. Additional coronal and sagittal reformatted images were submitted.

DOSE OPTIMIZATION: CT radiation dose optimization techniques (automated exposure control, and use of iterative reconstruction techniques, or adjustment of the mA and/or kV according to patient size) were used to limit patient radiation dose.

FINDINGS:

CT Left LOWER EXTREMITY:

Mildly displaced fracture through the medial malleolus, closed and displaced Lt Fbiula Fx, Bi-malleolar, closed. There is also apposition of the fracture fragments of approximately 70 mm. The imaged Left hip and knee joints appear otherwise intact. No obvious focal hematoma or fluid collection identified. No discrete soft tissue mass or radiopaque foreign body. Residual contrast is seen in the imaged urinary bladder.

IMPRESSION:

1. Mildly displaced fracture through the medial malleolus, closed and displaced Lt Fbiula Fx, Bi-malleolar, closed.

Study Result

PROCEDURE: XR-TRAUMA DISTAL RADIUS, RIGHT

DATE OF EXAM:

DEMOGRAPHICS: 7 years old Female

INDICATION: Trauma History: mva, Left tib/fib fx, Spleen Lac, Rt Distal Radius

Forearm Lac. Number of Series/Images: 4.

COMPARISON: No existing relevant imaging study corresponding to the same

anatomical region is available.

FINDINGS:

4 views of the Right Radius were obtained. There is acute Rt Distal Radius forearm lac with no fractures identified

IMPRESSION:

Medications Ordered/Given During ED Visit:

Current Facility-Administered Medications										
Medication	Dose	Route	Frequency	Provider	Last Rate Last Dose					
Ancef										

Procedures: Attempted closed reduction of Lt Tib/Fib Fx under conscious sedation, failed attempt. See conscious sedation documentation.

Diagnosis: GR3 Spleen Lac, L tib/fib fxs, Mult Abras, Mult Contusions, R Radius Forearm lac

Medical Decision Making: transfer patient to Level 2 Pediatric Trauma Center, Rowboat Children's Hospital.

Disposition: Transfer

Man in Black Medical Center

Level III Trauma Center

ORTHOPEDIC SURGERY CONSULT/CONSCIOUS SEDATION

Reason for Consult: left distal tib/fib fx

Assessment:

left distal tib/fib fracture

Plan:

Review imaging

Sedated with ketamine under the supervision of the ER Closed reduction with the help with the C arm-unsuccessful Transfer to Pediatric Trauma Center, Rowboat Children's Hospital

Orthopedic specific Exam:

left leg:

obvious deformity, TTP at fracture site NV intact distal to injury motor intact to distal extremity compartments soft cap refill <2 sec

HPI: Ramona Kash is a 7 y.o. female who presents with left distal tib/fib fracture from MVC.

Primary Care Physician: MD

Allergies:

Allergies

Allergen Reactions

none

Outpatient Meds:

Prescriptions Prior to Admission

(Not in a hospital admission)

Past Medical History:

No past medical history on file.

Past Surgical History:

No past surgical history on file.

Social History:

Social History
Social History

Social History

Marital status: Single

Spouse name: N/A

• Number of children: N/A

• Years of education: N/A

Occupational History

Not on file.

Social History Main Topics

Smoking status:

Smokeless tobacco:
Alcohol use
Drug use:
Sexual activity:

Not on file
Not on file
Not on file

Other Topics Concern

• Not on file

Social History Narrative

Family History:

No family history on file.

Review of Systems:

Left leg pain

No F/C, no HA/changes in vision, no CP/palpitations, no SOB, no N/V, no abd pain, no diarrhea/constipation, no melena/hematochezia, no dysuria/hematuria, no LE edema B/L

Physical Exam:

Vitals

Vitals:

BP:	124/56	118/70		108/78
Pulse:	120	112	124	84
Resp:	24	22	25	24
Temp:				
TempSrc:				
SpO2:	98%	100%	100%	100%
Weight:				
Height:				

Gen: Age appropriate. Alert and oriented x 3, no acute distress

HEENT: oropharyngeal airway patent **Neck:** trachea midline, no JVD

CV: Appropriate perfusion to distal extremities B/L

Resp: Equal chest wall excursion B/L, no chest wall ttp, no signs of accessory muscle use for respirations

Abd: soft, no mass, tender LUQ

Neuro: no motor or sensory deficits to UE or LE B/L

Skin: Clean, dry, intact, no signs of rash/ecchymosis/open wound besides that noted in MSK exam

OMM Exam: There are no abnormal curves appreciated on spinal exam of cervical/thoracic/lumbar spines including kyphosis/lordosis and scoliosis. Asymmetry, tissue texture change, restricted motion and tenderness to palpation to left wrist pain.

Labs:

CBC/COAGS

No results for input(s): WBC, HEMOGLOBIN, HCT, PLT, INR, PTT in the last 72 hours.

Invalid input(s): PT

BMP

No results for input(s): NA, K, CL, CO2, BUN, CREATININE, GLU, PHOS, ALBUMIN, MG in the last

72 hours.

Invalid input(s): CA

Imaging: left distal tib/fib fracture

PROCEDURE: Reduction and splinting

ANESTHESIA: Local with IV conscious sedation; IV NS with #20 Left AC

GROSS PATHOLOGY: None

PROCEDURE:

The indications for the procedure include malreduced distal tib/fib fracture and an unprotected extremity. The patient remained in the ED and was sedated with ketamine under conscious sedation

The mini-C arm was utilized to evaluate the both bone fracture. The reduction was attempted and visualized in the AP and lateral, which was unsuccessful

Electronically signed

Maybelle Seeger 11/17/2017

Orthopedic Surgery Resident

Revision History

13:53 Outpt Procedural Pre-Sedation Confirmation

Sedation Physician H&P Complete: Other

(Comment)

Date of Last PO Intake: 11/17/2017 Time of L

Preprocedure Aldrete

Activity: Able to move four

extremities voluntarily or on

command

Circulation: Blood pressure within

20% of preanesthesia level

Color: Pink

Time Out coordinated per Dr. Seeger

Procedure to be Performed:: closed

reduction 1 leg

Correct side and site marked?: Yes

Informed Consent Obtained: (ER)

Time of Last PO Intake: 1000

Respiration: Able to breath and cough

freely

Consciousness: Fully awake

Aldrete Score: 10

Correct patient identity?: Yes

Site mark visible during time out?:

Yes

Agreement on procedure to be done?: Correct patient position?: Yes Relevant images properly labeled and Pre-op Antibiotics Given Or displayed?: Yes Available?: N/A Physician(s) full name present for RN full name present for Time Out: Time Out: Dr. Seeger kim **Procedure Times** IN Room Time: 16:41 Start Time: 16:45 **Procedure Preparation** Cautery Used?: No Sedation Vital Signs Temp: 98.2 °F (36.8 °C) Temp Source: Oral Heart Rate: 83 Resp: 10 BP: 135/77 SpO2: 100 % Cardiac Rhythm: ST Oxygen Therapy SpO2: 100 % O2 Device: Nasal cannula Conscious Sedation Procedure Medications Ketamine: 80mg Aldrete Postprocedure Respiration: Able to breath and cough Blood Pressure: Blood pressure within 20% of preanesthesia level Consciousness: Fully awake Aldrete O2 Saturation: >92% on room air Activity: Able to move four Aldrete Temp: Normal 36 - 38 cel. extremities voluntarily on command Aldrete N/V: Swallow some fluid Aldrete Pain: Pain, discomfort, unrelieved by medication Aldrete Surgical Site: No drainage/NoAldrete Stage 1 Recovery Score: 10 wound present Aldrete Stage II Recovery: 17

Outpt Procedural	Preprocedure Aldrete		
Sedation	Activity: Able to move four extremities voluntarily or on command	Respiration: Able to breath and cough freely	
	Circulation: Blood pressure within 20% of preanesthesia level	Consciousness: Arousable on calling	
	Color: Pink	Aldrete Score: 9	
	Sedation Vital Signs		
	Heart Rate: 112	Resp:	
	BP: 164/97	SpO2: 100 %	
	Oxygen Therapy		
	SpO2: 100 %		
Custom Formula	Other flowsheet entries		RN
Data	Dias BP %ile: □ 100 %	Sys BP %ile: 100 %	
Outpt Procedural	Sedation Vital Signs		
Sedation	Heart Rate: 124	Resp: 25	
	SpO2: 100 %	BP: 124/56	
	Oxygen Therapy		
	SpO2: 100 %		
	Conscious Sedation Procedure I	Medications	
	Ketamine: 20mg		
	Custom Formula Data Outpt Procedural	extremities voluntarily or on command Circulation: Blood pressure within 20% of preanesthesia level Color: Pink Sedation Vital Signs Heart Rate: 112 BP: 164/97 Oxygen Therapy SpO2: 100 % Custom Formula Other flowsheet entries Data Dias BP %ile: 100 % Outpt Procedural Sedation Vital Signs Sedation Heart Rate: 124 SpO2: 100 % Oxygen Therapy SpO2: 100 % Coxygen Therapy SpO2: 100 % Conscious Sedation Procedure I	Sedation Activity: Able to move four extremities voluntarily or on command Circulation: Blood pressure within 20% of preanesthesia level Color: Pink Aldrete Score: 9 Sedation Vital Signs Heart Rate: 112 Resp: □ 0 SpO2: 100 % Custom Formula Data Dias BP %ile: □ 100 % Outpt Procedural Sedation Vital Signs Sedation Vital Signs Heart Rate: 124 Resp: 25 SpO2: 100 % Oxygen Therapy SpO2: 100 % Custom Formula Other flowsheet entries Data Dias BP %ile: □ 100 % Oxygen Therapy SpO2: 100 % Coxygen Therapy SpO2: 100 % Conscious Sedation Procedure Medications

Get Rhythm EMS Sheet RUN REPORT

Prehospital Patient Care Chart

		123-456	MBER	EMS RESPONS	SE NUMBER	CALL SIGN	VEI	HICLE #	INCIDENT DATE 11/17/2017		
INCIDENT ADDRESS Big River Road		I		<u> </u>	INCIDENT C Jackson				INCIDE 51503	ENT ZIP CODE	
INCIDENT COUNTY			INCIDI Street	ENT LOCATION 1	TYPE See Ref. Shee	t				1	
Folsom COMPLAINT REPORTI	ED BY DISPAT	CH See Ref. Sheet		RY PAYMENT					1	LEVEL O	F CARE - UNIT
Refused Care Treated & Released Treated, Transported Treated, Transported	MS No F care Cane No Treatment I Dead Private Vehicle Law Enforcem	Required d at Scene	See Ref.		☐ Yes w/out pr	SPATCH PERF rrival instructions e-arrival instruct ore-arrival instruc	s tions	en		☐ ALS, N ☐ ALS, P	MT LEMT LEMT Paramedic Jurse
TYPE OF SERVICE RE 911 Response Transfer Intercept # OF PATIENTS ON	☐ ED to ED☐ Mutual A		PRIMARY Re Transpor Supervise Rescue								су
SCENE None Multiple	MASS C ☐ Yes ☐ No	ASUALIT								☐ ALS, L ☐ Specia Transport ☐ Helicop ☐ Not Ap	alty Care
PATIENT LAST NAME					PATIENT FIRS	Г NAME					МІ
Krash					Ramona						
PATIENT ADDRESS	SAME AS I	NCIDENT			PATIENT CITY Jackson		Ohi	TIENT STAT	E	51503	NT ZIP CODE
AGE 7 year old		10-10-10	ТН	GENDER ☐ Female ☐ N	Male	RACE Hispanio	c			•	
CURRENT MEDICATION		1	ALLERG None				None	ENT HISTOR			
☐ Yes MVC			TYPE OF INJURY Blunt Penetrating Burn Not Known Smell of alcohol use Alcohol and/or dr		cohol on b		☐ Pt ad ☐ Pt ad	dmits to di dmits to al			
CHIEF COMPLAINT Multiple Trauma Victin	n, spleen injury	, tib/fib fxs, radio	us open dis	location		Aconor and	a/or drug p	Daraphemana	CONDIT	ION COD	E See Ref. Sheet
CHIEF COMPLAINT AN Abdomen Chest Head	AATOMIC LOCA Extrem Back Neck		Extremit	General/Global Extremity Upper Genitalia		Ē	SYSTEM OB/GYN Renal	N	☐ Pulmonary☐☐ Musculoskeletal		tal
CARDIAC ARREST ☐ Yes, Prior to Arrival ☐ Yes, After Arrival ☐ No	RESUSCIT. Defibrillation Ventilation Chest Co	tion	☐ None-D ☐ None-D ☐ None-Si	NR	CAUSE OF CARDIAC ARREST Presumed Cardiac Respiratory Unknown Trauma Electrocution Drowning Other						
USE OF SAFETY EQUI N/A Not Known Child Restraint BARRIERS TO EFFEC	☐ Lap Be ☐ Helmet ☐ Eye Pro	Worn		r Belt ve Non-Clothing G Il Floatation Devic	ear 🔲 Otl	otective Clothing ner	I	AIRBAG D None P Not Dep	resent ployed	☐ Dep	oloyed Front bloyed Side
☐ Development Impaire ☐ Physical Restraint			☐ Languaç	ded/Unsupervised ge	☐ Hearing ☐ Speech		None				
RESPONSE MODE		TRANSPOR	_	Initial Call for He	elp	16:55		eft Scene			17:18
	Lights/Sirens		→ □	Unit Notified Unit En Route		16:55 16:58	_	t arrived at D er of Patient			17:32 17:38
☐ ◀ Initial Lights/Sire	ū		_	Arrive on Scene		17:10		nt Completed			17:36
_	=	d to Lights/Sirens	_	Arrived at Patier		:		,			-
PRIOR AID See Ref. Shee PERFORMED BY				ROCEDURES		OUTCO	MF				
						23.30					
_											

				INCIDENT N	UMBER	ER UNIT ID				INCIDENT DATE		
TRAUMA TRIAGE CRITERIA □ 2nd/3rd burn >10% BSA or face/feet/hand/genital/airway □ Amp prox to wrist/ankle □ Decreasing LOC □ GCS Motor >4 □ GCS Total ≥13 □ Head/neck/torso crush □ Extremity inj w/neurovasc comp □ Extremity crush □ Torso inj w/abd tender/ dist				t any triage criter /neck/torso to knee/elbow w nj siderations nerus/femur fxs	ria /neurova	<u> </u>		DULTS ONLY I Pulse > 120 w, Tension pneu I Resp < 10 or 1 I Required intul SysBP < 90, o w/carotid puls	mothora 29 pation r no rad se	ax lial pulse	_ '	
☐ ☐ Choking ☐ ☐ Death ☐ ☐ Device/ ☐ ☐ Diarrhe	ng es in Responsive g Æquip Prob a ge/Discharge	P A D D D D D D D D D D D D D D D D D D	ATED=A Mass/Lesion Mental/Psyct Nausea/Vom Pain Palpitations Rash/Itching Swelling Transport Or Weakness Wound		S Abd p Airwa Allerg Altere Behave Cardi	pain y obstruct jic rxn ed LOC vior/psych ac arrest ac arrhythm t pain		P	lectrocu yperthe ypother ypovole ihalation nhalation eath oisoning	ermia rmia emia/shock n/toxic gas en/smoke g/drug OD	P S Resp a Resp d	istress e assault/rape bites CVA ee
MEDICATION TIME	S MEDICATION					DOSE		ROUTE		REACTIONS	See Ref. Sheet	
17:18	Fluids					125 mc KVO	:/hr	Lac piv				
:						KVO						
÷												
:												
: PROCEDURE	e											
TIME	PROCEDURE					# ATTEM	1PTS			COMPLICA	TIONS See Ref. Shee	et
:	PIV LAC	in referring	g ED			1		☐ YES ☐				
:								YES -				
:								YES				
:								☐ YES ☐				
VITAL SIGNS											See Ref. Sheet	
17:20	PULSE 98	SYS BP	DI/ 60	A BP				02 SAT GCS E 99/RA 4		EYE	GCS VERBAL 5	GCS MOTOR 6
:	30		- 00		10		00/	101				
:												
:												
:												
ADV DIRECTI State DNR Other Heal	Form	☐ Family Red	uest DNR (no	o form)	ving Will her		STINAT wboat (pital, L	evel 2 Pediat	ric Trauma Center	
TYPE OF DES Hosp ED/O Other EMS Other EMS Other	R/L&D (air)	REASON FOR Closest Diversion Family Choic Insurance Law Enforce	ce	☐ On-line ☐ Other ☐ Pt. Cho ☐ Pt. Phy ☐ Protoco	oice /sician's ol			D DISPOSITION Admit-floor Admit-ICU Death Discharge Transfer-other			HOSPITAL DISPOSITION Death Discharge Transfer-other hosp Transfer-nursing home Transfer-other	
NARRATIVE	U.			<u> </u>						<u>"</u>		
van. Rep Fire and	orted vehi	icle burst i	nto flame	es just afte	r patie	ent was	remo	oved. Pation	ent tr	ansporte	d to level 3 T	
trauma p	pediatric pa ons, abrasi	atient. Rep ons, small	orted pat forearm	tient has s lac.							or transport cation, multi	
		aintained v			ital wi	ithout in	ncido	nt Vital ei	ane	remained	stable throu	ahout
				SE OXIMET							JIANIE IIII VU	griout
CREW MEMB	ER			CREW MEMBE	ER				CRE	W MEMBER		
CREW MEMBER CREW MEMBER CREW MEMBER				22								

Rowboat Children's Hospital

Ramona Krash 7yo female Birthdate: 10/10/2010 MRN 11111111

Date: <u>11/17/2017</u> Patient Arrival Time: <u>17:32</u>

Hospital Trauma Team Activation Yes X No Time of Trauma Team Activation: 16:55

N/A Pre-Hospital Treatment										
Transporting Ar	Fransporting Ambulance Get Rhythm Helicopter									
O2 @	_L/min/		IV: Needle size_#20) LAC	X_Backboard					
NC NRB	Ambu		NS		Long Short Ked					
Airway			Medications		Scoop					
Oral Nasal	Other				Bilateral Head Supports					
ET tube #	@	cm	C-Collar on: Yes_X	No	Splint on					
•					Ice on					
CPR started @	(time)				Dressing					
					Other					
Date of Injury:	11/17/201	7	Time of Injury:	UNK	Pre-hospital trauma team alert notification: X Yes No					

Trauma Team Members									
Team members notified:	Time Called	Time Arrived							
% Nurses x									
% Physician / CNP / PA									
% Lab									
% X-ray									
% Other									

Type of Vehicle						
X Car	Pedestrian					
Truck ATV						
Motorcycle	Boat					
Bicycle						
Other						

	Mechanism of	Restraint Devices			
Speed of vehicle	MPH	Rollover		X Lap belt	Airbag deployed
Number of vehicles 1 2 3 >3 Steering wheel deformity		Ejected Rearend T-Bone		Shoulder belt Car seat	Helmet Unrestrained
Starred windshield		Head on			

Fall	Penetrating	Blunt	Thermal	Other
% Fell from:	% GSW	% Assault	% Burn	% Hanging
	% Stabbing	% Crush	% Heat exposure	% Near drowning
Height ft.	% Other	% Other	% Cold exposure	% Animal related

Initial Assessment

	AIRWAY	DISABILITY			
X Patent	% Suctioning	Glasgow Coma Score	Initial	Disch	
% Oral Airway	% Bag Mask	Eye Opening			
% Nasal Airway	% O2 2 L.	Spontaneously 4	1		
‰ ET	Comments	To Speech (Shout) 3			
% Trach		To Pain 2	4		
‰ Crico		No Response 1	,		
	BREATHING	Verbal Response			
Spontaneous	Respiratory Effort	Oriented (Coos, Babbles) 5			
R L	X Normal % Agonal	Confused 4			
X X Lung sounds	% Shallow % Nasal flaring	(Consolable, Cry)			
Clear	% Stridor % Tachypnea	Inappropriate Words 3			
Rales	% Dyspnea % Grunting	(Persistent Cries, Screams)			
Rhonchi/Wheezes	% Retracting % Absent	Incomprehensible 2			
Decreased	% Intercostal % Paradoxical	Words (Grunts, Restless)			
Absent	% Substernal % Cough	No Responses 1	5		
Smoker % Yes X No		Motor			
	CIRCULATION	Obeys (Spontaneous) 6			
Capillary Refill:	fone % Delayed (> 2 sec) X Normal (< 2 sec)	Localized Pain 5			
	arotid % Femoral % Radial % Pedal	Withdrawal to Pain 4			
Palpated Pulse X R	egular	Flexion to Pain 3			
	udible % Absent	(Decorticate)			
Jugular Vein Distension X N	o % Yes	Extension to Pain 2			
1	ontrolled % Uncontrolled X NA	No Response to Pain 1	6		
Skin Color X Pi	·				
‰ P	allor % Cyanotic	Total GCS Score @17:35	<u>15</u>		
‰ F	lushed % Mottled				

					Area of Injury	
Allergie	es <u>none</u>					
:		<u>_</u>		{)	(
Tetanus	: <u> </u>	Wt:	_)~	(
	Procedu	ıres		(-	-) (,)
Time	Procedure	Results		15.		/1
	ET Tube Combitube	Size			11/1	1
		Secured @	cm	11	. 11	1/1
		FiO2	 %	1/1.	, 1/5//	115
PTA	Central Line/ IV	Size 20	Fr	7.1	115mm17	- Just
	PIV LAC #20	Site LAC		1	1 1	
		Solution_			1 1	
17:38	Warming Measures	X Fluids				
		% Mechanical				
		‰ Bair Hugger				
		X Blankets)	11()-1/	7
	NG Tube	Size		4	1	
		Color				
	Foley / Quick Cath	Size		A = Abrasion	Fc = Closed	OW = Open
		Color			Fracture	Wound
PTA	Neck immobilization	CMS:		B = Burns	Fd = Dislocation	P = Paralysis
	C-Collar Applied: PTA	_ Before		C = Crepitus	Fo = Open Fracture	S = Edema
		After		D = Deformity	L = Laceration	Ta = Total
						Amputation
	Splinting	Location:		E = Ecchymosis		Na = Near
						Amputation
						25

Secondary Assessment

Head/Scalp			Eyes			Mouth			Ears				
X Inta	ct		% Ras	h X PI	EARL			%0	Intac	et		X No drai	nage
% Lac	eration		% Bur	ns ‰ R	accoon e	eyes		%0	Teet	h		% Drainag	ge
‰ Abr	Abrasions % Pain % EOMS follows			%0	% Missing teeth		% Righ	nt % Left					
‰ Bru	ising		% Batt	le ‰ V	isual Ac	uity OD	/_	%0	Dent	ures int	act	‰ C	lear % Clear
			Signs			uity OD _ OS _		%	Com	ments_		% B	lood % Clear
		N	leck						Ches	t			Heart Sounds
‰ Inta	.ct			X C-Coll	ar >	Symmetr	ical		%0	Chest	Pain		X Present
% Swe	elling			% Pain		Asymme				Locati	on		% Distant
% Trachea midline % Paradoxica							% Absent						
% Trachea deviated Location						1 movement Time of onset							
% Sub-q emphysema					- %0	Flail cl	hest						
% Diff	ficulty s	wallow	ing			Location			%0	Other			
	,					Abo	lomen /	Pelvis /	GU				
				Abdom	en				Bo	wel Sou	ınds		Pelvis
‰ Soft	t		% Dist	ended	%0	Last Intake	:		X Pr	esent		X Intact	
% Nor	ntender		% Rig	id		Food <u>brea</u> Liquid	kfast		‰ A	bsent		% Pain	
X Ten	der					Liquid		_	‰ H	yperact	ive		
‰ Con	nments:								‰ H	ypoacti	ve	% Blood at me	
												% Blood at rec	tum
												% Instability	
				Posteri	or						Ex	xtremities	
X Inta								% Intac					
‰ Def								% Fract	ture				
% Pair								% Pain					
‰ Con	nments	LUQ						X Defo					
								X Com	ments	Lt Tib/	Fib Fx w	ith OCL splint	intact, Rt Forearm 3cm
							D	oil Reactio		Doin	Scale		-
	_						S-slow	U-une			-10	-	omments
Time	Tem	P	R	BP	SaO2	O2 L/min	B-brisk	D-dil	ated		ain		
	p					12/111111	F-fixed	= - E	qual	Scale	Туре		
47.05	00.0	100		00/50	00	D.4		d by swellin			Турс		
17:35	98.9	100		98/59	99	RA	Right	Le	It	4			
17:45		92	20	95/55	100	RA	=	=		5		Unassisted re	spiratory rate
18:00	98.6	88	22	96/52	100	RA	=	=		5			
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NS			Medi	/ / / / / / cation		M		ons Give Dose	\Box	Roi	ıte	Time Given	
			Medi	/ / / / / / cation		M	80ml		IV	1	ıte	1815	SM
NS Zofran			Medi	/ / / / / / cation		M			\Box	1	ıte	+	
			Medi	/ / / / / / cation		M	80ml		IV	1	ite	1815	SM

Input				Output				
Source	Prior to Arrival	ED	Total	Source	Prior to A	rrival	ED	Total
IV Fluids	PTA			Urine				
				Emesis				
				Chest Tube				
				Other				
Blood								
Fresh Frozen Plasma								

Nurse Notes: Patient arrived via helicopter after single MVC where patient was the rear passenger with lapbelt only restraint. Patient is transferred from Level 3 trauma center, Man in Black Medical Center. FAST exam was positive, CT of Abdomen at Level 3 facility indicates moderate GR3 spleen laceration. All imaging to be re-read here. Patient was evaluated by the trauma team and discharged from ED at 1900.

ature:
ature:

FINAL DISPOSITION: Patient's order to admit to the floor at 18:15 11/17/17 written by Dr. Damon Fielder.

Patient will be taken to the OR in the morning by Orthopaedics for ORIF of Lt Tib/Fib Fxs

Name: Ramona Krash Date/Time of Admission: 11/17/2017 CSN: 11111111 Attending Provider: Dr. Damon Fielder

Room/Bed: ED 14/14A DOB: 10/10/2010 7 y.o. female

FOCUSED ASSESSMENT WITH SONOGRAPHY FOR TRAUMA (FAST).

INDICATION: Blunt thoracoabdominal trauma

PROCEDURE IN DETAIL: The scan was performed using either a phased array or curvilinear transducer. Using the curvilinear transducer, a coronal plane of the right upper quadrant of the abdomen and the right chest was obtained and was negative for blood in the right chest, in Morison's pouch, or the right paracolic gutter. A sub-xiphoid or parasternal long axis view of the heart was obtained. There were no signs of pericardial effusion or cardiac tamponade. Next, a coronal plane of the left upper quadrant of the abdomen including left chest was obtained and was no for blood in the left chest, splenorenal space, in the left pericolic gutter. Finally, the urinary bladder was insonated in the sagittal and transverse planes and there was possible evidence of free intraperitoneal fluid posterior or lateral to the bladder. The patient tolerated the procedure well with no complications.

CONCLUSION: This was a negative FAST exam for free intraperitoneal blood, hemothorax, or hemopericardium.

HISTORY & PHYSICAL

Rowboat Children's Hospital

Level II Pediatric Trauma Center

Name: Ramona Krash CSN: 11111111

Room/Bed: ED 14/14A

Smoking status:

Date/Time of Admission: 11/17/2017 Attending Provider: Dr. Damon Fielder

DOB: 10/10/2010 7 y.o. female

TRAUMATIC EVENT: MVC	
Mode of Arrival: helicopter	
☐ Trauma I ☐ Trauma II ☐ Tra	uma Consult 🔲 Trauma Transfer From:
	arrived to Rowboat Children's Hospital Emergency Department following an Γ with IV contrast of the abdomen and pelvis was obtained and demonstrated GR3
Patient Name: Krash, Ramona Date:	
Mechanism of Injury: MVC passer	nger
Injuries: GR3 Spleen Lac, L tib/fib lac	fxs, Mult Abras, Mult Contusions, R Radius Fx w/tendon lac and RFA
Other Medical Problems: none	
Incidental Findings: None	
Admission Plan of Care: OR for re	eduction of tib/fib fx, non-operative treatment for GR3 Splenic Lac
Chief Complaint (CC): Multiple Tra	auma
	yof, lap belt only restrained middle backseat passenger of van involved in an embankment, landing on its top, reported patient's vehicle engulfed in et Rhythm Air Medical Services'
Past Medical History (PMH): none	
Past Surgical History: none	
Social history:	No No

Never Smoker

Smokeless tobacco: Never Used

Alcohol useDrug use:No

Sexual activity: Not on file

Family history: Not on file

Medications: None

Allergies:

Allergies not on file

REVIEW OF SYSTEMS [List positives and pertinent negatives]:

Constitutional Symptoms:

Eyes: NEGATIVE

Ears, Nose, Mouth, Throat: ENT EXAM NORMAL

Cardiovascular: S1 AND S2 NORMAL

Respiratory: NORMAL BREATH SOUNDS, NO RESPIRATORY DISTRESS, NO WHEEZING **Gastrointestinal:** Abdomen soft with guarding, tenderness with concern for organ injury

Genitourinary:

Musculoskeletal: LLE obvious deformity, RUE obvious deformity, distal pulses are palpable in It foot and RUE, Neuro intact at distal Lt Lower Extremity, otherwise moving extremities appropriately. RUE FA 3cm lac with tendon involvement.

Skin/Breast: Normal coloration and turgor, no rashes, no suspicious skin lesions noted. RUE FA lac with tendon involvement

Neurological: No motor or sensory abnormalities

Psychiatric: Affect normal, Mood normal, Judgment normal.

Endocrine:

Hematologic/Lymphatic: Allergic/Immunologic: NONE

PHYSICAL EXAM:

Initial Vital Signs

BP 113/60 mmHg | Pulse 85 | RR 20 | Temp:xx | Ht not on file | Wt 18.6 kg (x lb) | SpO2 100%

PRIMARY SURVEY

AIRWAY: Patent, trachea midline. Phonation is normal.

BREATHING: Symmetric chest rise and fall. Breath sounds present bilaterally.

CIRCULATION: Pulses 2+ throughout.

DISABILITY: Moves extremities normally x 4. No lateralizing neurologic signs. Pupils 3 mm equal and reactive bilaterally.

Glascow Coma Scale:

EYES = 4 **VERBAL** = 5 **MOTOR**= 6 **GCS** = 15

SECONDARY SURVEY

GENERAL: AOx3. in no acute distress

HEAD/FACE, EYES, ENT: Head atraumatic, ENT exam normal, conjunctivae/corneas clear. PERRL,

EOM's intact. No battle signs or raccoon eyes present

NECK: Supple without obvious injury

CHEST/RESPIRATORY: Resp: No chest wall deformities or tenderness, resp effort normal. No wheezing, rhonchi or rales

CVS: RRR, no murmurs, gallops or rubs

ABDOMEN/GI: Abdomen soft with guarding, tenderness with concern for organ injury, FAST Exam pos for some intraperitoneal blood

PELVIS: stable with no gross deformities, without obvious tenderness to palpation

GU and RECTAL: no gross hematuria, no trauma or blood indicated **BACK / TLS SPINE:** No obvious tenderness or bony step off deformities

EXTREMITIES/MSK: LLE obvious deformity, RUE obvious deformity, distal pulses are palpable in It foot and RUE, Neuro intact at distal Lt Lower Extremity, otherwise moving extremities appropriately. RUE FA 3cm lac with tendon involvement.

SKIN: Normal coloration and turgor, no rashes, no suspicious skin lesions noted. RUE FA lac with tendon involvement

NEURO: No motor or sensory abnormalities

PSYCH: Affect normal, Mood normal, Judgment normal.

Laboratory Results:

Labs:

CBC/COAGS

Recent Labs-today		
	1502	1503
WBC		9.1
HEMOGLOBIN		13.5
HCT		40.6
PLT		272
INR	1.1	
PTT	23.0*	

Imaging (if any) During ED Visit:

External Result Report

External Result Report

Study Result

EXAMINATION: CT-EXT LWR LEFT WO CON

DATE OF EXAM: 7/25/2017 3:44 PM

DEMOGRAPHICS: 7 years old Female

INDICATION: History: Lt Tib/fib fx. Number of Series/Images: 9.

COMPARISON: none

istory. It fib/fib fx. Number of Series/images.

TECHNIQUE: Contiguous axial slices of the left lower extremity were submitted without IV administration of contrast. Additional coronal and sagittal reformatted images were submitted.

DOSE OPTIMIZATION: CT radiation dose optimization techniques (automated exposure control, and use of iterative reconstruction techniques, or adjustment of the mA and/or kV according to patient size) were used to limit patient radiation dose.

FINDINGS:

CT Left LOWER EXTREMITY:

Mildly displaced fracture through the medial malleolus, closed and displaced Lt Fbiula Fx, Bi-malleolar, closed. There is also apposition of the fracture fragments of approximately 70 mm. The imaged Left hip and knee joints appear otherwise intact. No obvious focal hematoma or fluid collection identified. No discrete soft tissue mass or radiopaque foreign body. Residual contrast is seen in the imaged urinary bladder.

IMPRESSION:

1. Mildly displaced fracture through the medial malleolus, closed and displaced Lt Fbiula Fx, Bi-malleolar, closed.

Study Result

PROCEDURE: XR-TRAUMA DISTAL RADIUS, RIGHT

DATE OF EXAM:

DEMOGRAPHICS: 7 years old Female

INDICATION: Trauma History: mva, Left tib/fib fx, Spleen Lac, Rt Distal Radius

complete dislocation, open with Forearm Tendon Lac. Number of

Series/Images: 4.

COMPARISON: No existing relevant imaging study corresponding to the same anatomical region is available.

FINDINGS:

4 views of the Right Radius were obtained. There is acute complete dislocation of the Rt Distal Radius Open Dislocation.

IMPRESSION:

1. There is acute complete dislocation of the Rt Distal Radius Open Dislocation and with Rt Forearm Tendon Laceration

Medications Ordered/Given During ED Visit:

Current Facility-Administered Medications

Medication Dose Route Frequency Provider Last Rate Last Dose

Ancef

Diagnosis: GR3 Spleen Lac, L tib/fib fxs, Mult Abras, Mult Contusions, R Radius Fx w/tendon lac and RFA lac

Medical Decision Making: Admit for surgical intervention of Lt Tib/Fib Fx

Disposition: Admit

Physician Discharge Summary

Patient ID Ramona Krash

7yo MVC

Admit date: 11/17/2017

Discharge date and time: 11/23/2017

Admitting Physician: Dr. Damon Fielder

Discharge Physician: Dr. Damon Fielder

Admission Diagnoses: GR 3 Spleen Lac, Lt Tib/Fib Fxs, Multiple Contusions, Multiple Abrasions, Rt FA Lac, 3cm

Discharge Diagnoses: Same as above

Admission Condition: fair

Discharged Condition: good

Indication for Admission: Patient sustained a GR 3 Spleen Lac and was treated non-operatively and remained hemodynamically stable throughout her inpatient stay. Patient taken to the OR for ORIF of Lt Tib/Fib Fxs. Sutures were done in the ED for the RFA lac. She was admitted to the hospital for medical optimization as well as surgical fixation of her Lt tib/fib fxs.

Hospital Course: She was admitted to the hospital for further work-up and treatment. On 11/18/2017 patient was taken to the operating room for open reduction internal fixation of the Lt Tib/Fib Fxs. Patient underwent the surgery without any apparent complications. Patient was then admitted back up to the floor. There she began to work with physical therapy as well as got her pain back under control. Over the next week she continued to work with physical therapy with good results and was able to be discharged on POD 5, 11/23/2017. Prior to discharge she was tolerating a diet, her pain was controlled on oral medications and was working well with therapy.

Consults:

Internal medicine

Discharge Exam:

Physical Exam	
General Appearance	alert, well appearing, and in no distress
Musculoskeletal	Dressing/incision c/d/i, staples in place, no erythema no drainage no swelling motor 5/5 in UE/LE BL DF/PF/EHL/FHL 5/5 sensation intact to light touch No focal sensory deficits Compartments soft/NT extremity well perfused, pulses palpable, capillary refill <3 seconds
Skin	Warm and dry

Disposition: Discharged home in good condition

Patient Instructions:

Discharge Medication List as of 11/23/2017 9:47 AM

START taking these medications

Details Zofran 4mg ODT PRN

Tylenol 325 mg POTake 1 capsule by mouth every 4 hours as needed for pain.

Vicodin 5mg PO Take ½ tablet every 6 hours for severe pain as needed.

Activity: activity as tolerated; per PT evaluation

Diet: regular diet

Wound Care: keep wound clean and dry; follow up for suture removal in 7 days

Follow-up with Dr. Fielder

OPERATIVE REPORT

DATE OF PROCEDURE: 11/17/2017

PRE-OPERATIVE DIAGNOSIS: Traumatic Subdural Hematoma with loss of consciousness

POST-OPERATIVE DIAGNOSIS: Left Temporal Subdural Hemorrhage with loss of consciousness, Brain

compression and Left temporal skull fracture extending to Left Parietal bone, closed

PROCEDURE: Craniotomy, ICP placement

SURGEON: Dr. William Beck

FIRST ASSISTANT: John Kingsland

ANESTHESIA: General endotracheal intubation

HISTORY: Patient is a 43 year old male driver of a minivan that lost control and rolled down a four-foot embankment, flipping over and landing on its top. Patient was air lifted from scene. Patient was intubated on scene. Patient was showing signs of hemiparesis. Surgery was undertaken with decompression of the brain. There was no family available prior to emergent surgery.

OPERATIVE PROCEDURE: After anesthesia induction, a roll was placed under the left shoulder. The head was placed in a Mayfield head tongs and turned to the right and secured on the table. Next, a linear incision was midway between the ear and the midline of the left side over the parietal, incision was infiltrated with lidocaine and epinephrine. This was carried out to the periosteum.

Next, a retractor was placed, a burr hole was made over the fracture, and then a large craniotomy was turned. A moderate to large subdural hematoma was evacuated. The edges were packed with a thin layer of Gelfoam and thrombin and then sutures were placed in the periphery of the craniotomy. Additional sutures were placed and secured to the skull flap. The skull flap was put back together and secured using Stryker plates and screws. Galea was closed using 3-0 Vicryl and skin with 4-0 prolene in running interrupted fashion. Next, our attention was turned to the insertion of the Camino bolt, using drill bit from Camino kit, a burr hole was created and rinsed with saline. Next, the dura was opened using #11 blade to make a cruciate incision. Then the catheter tip was placed within the sheath and used to tunnel the catheter under the scalp toward the drill hole. The catheter was inserted and connected to the drainage system. The incision was properly closed using 4-0 prolene.

The patient was taken out of the Mayfield tongs, and taken to the NICU postoperatively in critical condition.

William Beck

D: 11/17/2017 22:13:45 T: 11/18/2017 08:32:12

Job #: 8125687 Doc #: 5879561

PROCEDURE SUMMARY:

Date: 11/17/2017 Location: OR 4

Anesthesia Start: 17:22 Anesthesia Stop: 19:16

Procedure: Craniotomy, ICP placement Diagnosis: Subdural Hematoma

Surgeon: Dr. William Beck Responsible Provider: Dr. Jack Penny

Anesthesia Type: General ASA Status: 2

EVENTS:

DATE	TIME	EVENT
11/17/2017	17:22	Anesthesia start
	17:28	Induction – Patient intubated prior
	17:31	Anesthesia Ready
	19:13	Hand off to Receiving Nurse- NICU
	19:16	Anesthesia Stop

VITALS:

DATE	TIME	BP	PULSE	RESP	TEMP	SPO2
11/17/2017	17:16	130/90	105	16	36.4	98
	17:18	128/85	103	18	36.5	99
	17:20	129/83	103	20	36.1	100
	17:22	130/88	100	18	36.3	100
	17:24	125/85	99	20	36.6	99

CASE TRACKING EVENTS:

DATE	TIME	EVENT	
11/17/2017	16:22	In Facility	
	17:15	In Pre-procedure	
	17:22	Anesthesia Start	
	17:20	In Room	
	17:25	Induction	
	17:40	Procedure Start	
	19:01	Procedure Closing	
	19:01	Procedure Finish	
	19:26	End of Periop Care	

Intra-procedure I/O Totals:

INPUT:		
0.9% sodium Chloride Infusion	2000ml	
OUTPUT:		
EBL (ml)	50	

Walk the Line Hospital

1932 Sun Records Drive Starkville City, OH 91203

CHEMISTRY REPORT

Patient: Krash, Jimmy MRN: 774859

DOB: 06/01/1974 ENCOUNTER NO: 5589658599

Date: 11/17/2017

Time reported: 17:02

Ethanol & Volatile Screen (blood and urine) Results:

	Units	Normal	Result
Ethanol (alcohol) Blood	Mg/dL	<10	10 (negative)
Ethanol (alcohol) percent	%		0.01

DISCHARGE SUMMARY

Patient Name: Krash, Jimmy Account #: 5589658599

MR #: 774859

Admission Date: 11/17/2017 Discharge Date: 11/29/2017

Discharge Disposition: Orange County Rehab

Attending Physician: Dr. Jack Penny Dictating Physician: Dr. Sue Riders

Admitting Diagnosis: Traumatic Subdural Hemorrhage, without loss of consciousness, initial encounter

Discharge Diagnosis:

Traumatic Subdural hemorrhage without loss of consciousness

Cerebral Edema

Left Temporal Skull Fracture, nondisplaced

Nasal Septum Fracture Nasal Bone Fracture

Left Zygomatic Arch Fracture, nondisplaced

Left Clavicle Shaft Fracture Lt AC joint Separation

Left Orbital Floor blowout fracture, comminuted

Brown Sequard Syndrome at T3 level

T3/ T4 dislocation

Consultations: Neurosurgery, Orthopedics, Oral Maxillofacial, Urology

Procedures: Craniotomy, ICP- Camino Bolt

Complications: NONE

Hospital Course: Patient is a 43 yo white male who was the driver of a van that was involved in a motor vehicle accident resulting in rollover in embankment. Patient arrived intubated via flight from scene. In the ED patient was activated as a Trauma Level 1, it was identified via chest x-ray that the OETT was resting in the right Mainstem and was retracted for proper airway management. A CT head, CT Face, CT Spine, CT abdomen and pelvis were all completed and subdural hemorrhage was identified. Neurosurgery evaluated patient in ED and decided to take patient straight to OR for craniotomy and IPC monitor placement. After OR procedure patient remained intubated and was admitted to the NICU. Orthopedics had also evaluated the patient in the ED. Patient was identified to have a left clavicle fracture and an AC separation. On day 1 post-op OMF was consulted and discussed to reevaluate facial injuries after swelling subsides. On day 6, patients ICP monitor was removed. On day 6 patient was extubated without issues. On HOD 8 patient was transferred to Neuro stepdown. Patient was experiencing tingling sensation/ weakness on his left side of his body and no sensation on the right. Neurosurgery identified the patient as having Brown-Sequard Syndrome at the T3 level, where it was previously identified that the patient had a T3/T4 dislocation. On day 10 patient was experiencing shortness of breath and lost pulses, going into cardiac arrest. A code blue was called and CPR was initiated. Patient had ROSC with ACLS protocol. Pt was then transferred to the NICU. OMF evaluated and fractures were determined to be treated as an outpatient. Patient then spent 2 more uneventful days in the NICU and was then transferred to an LTAC.

Labs: No results for input in the last 24 hours

Radiology Results:

EXAM: CT Head w/ out contrast Indication: suspected head injury

Technique: Multiple contiguous 5 mm axial images were obtained from the skull base to the vertex without the

use of intravenous contrast.

Comparison: NONE

Findings: The ventricles and sulci are within normal limits. There is a 1.3cm thick left temporal subdural hemorrhage, showing a 4mm right midline shift. There is noted compression of the brain. There is also evidence of a left temporal skull fracture overlying the before mentioned subdural hemorrhage extending to the left parietal bone. There is no evidence of acute territorial infarct. The paranasal sinuses are well-aerated.

Impression: 1.3 cm SDH, Lt temporal w/ 4mm RT midline shift noted brain compression

Lt temporal skull fracture extending to Lt Parietal bone

EXAM: CT Chest, Abdomen and Pelvis with contrast

CLINICAL HISTORY: s/p MVA.

TECHNIQUE: Multiple axial, coronal CT images were obtained through the abdomen and pelvis after administration

intravenous contrast material.

COMPARISON: NONE

FINDINGS: Lower Thorax: Images of the lung bases show no evidence of pleural or parenchymal mass. There are no pleural effusions. Chest: The ribs are all intact, the right clavicle is intact, and there is a fracture of the left clavicle shaft, with butterfly fragment, that appears comminuted. There is also a left acromioclavicular joint separation Abdomen: Gallbladder and Bile Duct: There is no intra or extrahepatic biliary ductal dilatation.

The gallbladder is again noted to be markedly contracted and surrounded by fluid. Chronic cholecystitis is suspected Pancreas: The pancreas is of normal contour and attenuation characteristics.

Spleen: The spleen is normal.

Adrenals: There is no evidence of adrenal mass.

Kidneys and Ureters: Both kidneys demonstrate prompt and equal nephrograms. The kidneys are normal in size, shape and configuration. There evidence of a Grade 2 capsular Kidney contusion on the right. No renal or ureteral calculi are identified. There is no hydroureter or hydronephrosis. Pelvis: Bladder: There is no evidence of intrinsic or extrinsic bladder mass. Stomach and Bowel: No definite evidence for appendicitis. There is no bowel wall thickening. No evidence for small or large bowel obstruction. There is no evidence of abdominal ascites or lymphadenopathy. Peritoneum: Bones: The bony structures appear intact.

IMPRESSION:

- 1. Right Grade 2 capsular kidney contusion
- 2. Chronic cholecystitis is suspected
- 3. Left clavicle shaft fracture, with butterfly fragment, comminuted
- 4. Left Acromioclavicular joint separation

EXAM: CT Face w/ out contrast

Indication: Facial injury

Technique: A facial CT was performed utilizing contiguous 3 mm axial images with reformats in the coronal and sagittal planes. No intravenous contrast was administered.

Comparison: NONE

Findings: The paranasal sinuses are well-developed and aerated. There is no mucosal disease or air-fluid level. The cribriform plate appears intact. The nasal septum is fractured on the left, as well as the left nasal bone which is non-displaced. The right zygomatic arch appears intact, however the left zygomatic arch has a fracture line that is non-displaced. The right orbit appears intact. The left orbit shows a comminuted orbital blowout fracture. No osseous lesion or fracture is visualized.

Impression: Left nasal septum fracture, Left nasal bone fracture, nondisplaced, Left zygomatic arch fracture, nondisplaced. Also mentioned, left orbital floor fracture, blowout, comminuted

EXAM: MRI Thoracic Spine without Intravenous Contrast

CLINICAL HISTORY: Hemi paralysis

TECHNIQUE: Magnetic resonance images of the thoracic spine without intravenous contrast in multiple planes.

COMPARISON: NONE

FINDINGS: Vertebrae: Degenerative facet arthropathy lower thoracic spine. No acute fracture. There is a

dislocation of the T3 and T4 vertebraes.

Spinal cord: At T3 level it demonstrates the extent of spinal cord hyperintensity limited to the left hemicord in

keeping with the clinical features of Brown-Sequard syndrome.

The vertebral body and disk space heights are preserved.

Impression: Spinal injury- Brown-Sequard syndrome- T3, with T3/T4 dislocation

Diet: Diet as tolerated

Activity: as tolerated per PT evaluation

Wound Care: Daily as needed, Stiches to be removed in approximately 3 days

Follow-up: Follow up with Neurosurgery in 1 week, Oral maxillofacial in 1 week, Orthopedics in 2 weeks

Discharge Plan: Patient was discharged to a rehabilitation center

Time spent for discharge: 60 minutes

Folsom County Fire and EMS RUN REPORT

Prehospital Patient Care Chart

			INCIDENT 33-4555	NUMB	ER	EM	S RESPONS	E NUMBER		CAL		VE	HICLE #	11/17/	ENT DATE 2017	
INCIDENT ADDRESS								INCIDEN		ГҮ			NCIDENT ST	TATE		ENT ZIP CODE
Big River Road					LINOIDI	- N - T - I	00 ATION T	Jackson				(Ohio		51503	
Folsom					Street	:NIL	OCATION T	YPE:								
COMPLAINT REPORT	ED BY DIS	PATC	H: MVC; rol	over	PRIMA	RYF	PAYMENT									F CARE - UNIT
INCIDENT/PATIENT D	ISPOSITIO	N					EMERGEN	U MEDICAI	L DISI	PATCI	H PERFOR	MED			☐ BLS, E	
	EMS	No Pa	atient Found				□ No		re-arr	rival in	structions				☐ BLS, A	AEMT
☐ Treated, Transferred	a care ⊔] No Treatm	Cance nent Re			☐ Pt			☐ Yes w/ou☐ Yes Unk					en		☐ ALS, A	∖EM⊺ Paramedic
Refused Care Treated & Released		Dead	at Scene						·						☐ ALS, N☐ ALS, F	lurse
Treated, Transporte	d Private Ve	ehicle														alty Critical Care
☐ Treated, Transported TYPE OF SERVICE RE	d Law Enfoi	rcemei	nt	PRI	MARY RO	OLE (OF THE UNIT								LEVEL O	F SERVICE
☑ 911 Response	☐ ED t			\boxtimes	Transpor	t	☐ Non-tr	ansport								mergency
Transfer Intercept	☐ Mutu				Superviso scue	И										су
# OF PATIENTS ON SCENE	MAS		SUALTY												☐ ALS, L☐ Specia	
☐ Single ☐ None															Transport	
Multiple															☐ Helico☐ Not Ap	
				ı										l.		,
PATIENT LAST NAME								PATIENT F	IRST	NAME						MI
Krash PATIENT ADDRESS ☐ SAME AS INCIDENT								Jane PATIENT C	ITY			PA	TIENT STAT	E	PATIE	N. NT ZIP CODE
			0.2					. ,						_		002_
AGE			DATE OF 4/16/1979	BIRTH		-	NDER Female ☐ M	lale			RACE White					
CURRENT MEDICATION	ONS				ALLERG	IES				I	PE	RTINI	ENT HISTOR			
None INJURY PRESENT	CALICE	SE IN 11	LIDY MVC			UNK ed TYPE OF INJURY			41.00	HOL/DRIE	· ·	INDICATOR	UNK			
⊠ Yes	CAUSE	JF INJ	URY MVC, rol	iover, un	restrained			☐ Penetratin		M Nor		05E	INDICATOR	-	dmits to d	rug use
□ No							☐ Burn [☐ Not Knowr		☐ Sm use	nell of alcoh	ol on b	oreath	☐ Pt a	idmits to a	lcohol
											ohol and/or	drug	paraphernalia			
CHIEF COMPLAINT Traumatic Arrest	ts/n M\/	'C												CONDI	TION COD	E
CHIEF COMPLAINT A	NATOMIC I	LOCA.						CHIEF COM		INT OF						
	□ Ex □ Ba		y Lower	_	General, Extremit			☐ CNS/Net☐ Global	uro		□ 0 □ R	B/GYI enal	N	☐ Puli	monary	
☐ Head	□ Ne				Genitalia		301	Cardiovascu	ılar		_			_		
CARDIAC ARREST	RESUS	SCITA	TION					☐ Psych CAUSE OF	CARI	DIAC	☐ S ARREST	KIN		☐ Mus	sculoskele	tai
∑ Yes, Prior to Arrival ☐ Yes, After Arrival	☐ Defi				None-Di			☐ Presume ☐ Trauma	ed Car	rdiac		espira ectro		☐ Unk	known	
□ No			mpressions		None-Si		of life	☐ Drowning	g				Julion			
USE OF SAFETY EQU	IDMENT												AIRBAG D	TEDL OVA	AENT	
□ N/A	☐ La	p Belt			Shoulde						Clothing		☐ None P	resent	⊠ Dep	oloyed Front
☐ Not Known☐ Child Restraint		elmet V /e Prot					n-Clothing Go atation Device		Othe	er			☐ Not De☐ Deploy		☐ Dep	oloyed Side
BARRIERS TO EFFEC	TIVE CARE	E											<u> </u>			
☐ Development Impair ☐ Physical Restraint		nysicali nconsc			Languag		Insupervised	☐ Hear ☐ Spee				one				
RESPONSE MODE			TRANS	PORT		Initi	al Call for He	lp		15	5:34	Unit L	eft Scene			15:48
	Lights/S					Uni	t Notified			15	5:34	Patien	t arrived at D	estination	1	16:01
	No Lights/N	No Sire	ns		→ □	Uni	t En Route			15	5:35	Transf	er of Patient	Care		:
☐ Initial Lights/Sire	_		_		•		ve on Scene					ncide	nt Completed			:
Initial No Lights	/Sirens Upg	graded	to Lights/Sir	ens _	→ □	Arri	ved at Patien	t		15	5:44					
PRIOR AID PERFORMED BY			М	EDICAT	ΓΙΟΝS/ P	ROC	EDURES				OUTCOME					

				INCIDENT	NUMBER		U	NIT ID			INCIDENT DAT	E
TRAUMA TRIA 2nd/3rd burn face/feet/h Amp prox tr Decreasing GCS Motor GCS Total Head/neck/ Extremity c Torso inj w/	>10% BSA or and/genital/air o wrist/ankle LOC >4 ≥13 (torso crush ij w/neurovasc rush	way	☐ Flail chest☐ Torso inj w/☐ LOC ≥5 mir ☐ Mech of inj☐ Did not mee☐ Pen inj heac☐ Pen inj prox☐ Spinal cord☐ Special Cor☐ 2+ prox hu	et any triage cri d/neck/torso to knee/elbow inj nsiderations	iteria / w/neurova:	Ü		ULTS ONLY Pulse > 120 w, Tension pneu Resp <10 or > Required intul SysBP <90, o w/carotid puls	mothora 29 bation r no rac	ax	PEDS ONL □ Poor pe □ Resp di	
Choking Death Device/ Diarrhe	ng es in Responsi ⁱ g (Equip Prob a ge/Discharge	veness	☐ Nausea/Vor☐ Pain☐ Palpitations	P P C C C C C C C C C C C C C C C C C C	S	y obstruct ic rxn d LOC vior/psych ac arrest ac arrhythmia pain			lectrocu lyperthe lypother lypovole halation nhalation leath oisoning	ermia rmia emia/shock n/toxic gas on/smoke g/drug OD	P S □ □ Resp a □ □ Resp d □ □ Seizure	istress e assault/rape bites CVA be
MEDICATION TIME	S MEDICATIO	N			ı	DOSE		ROUTE		REACTIONS	Soo Dof Shoot	
:	NS	IN				Bolus		IO		REACTIONS	See Rei. Sileet	
:												
:												
:												
:												
PROCEDURE	S											
TIME	PROCEDUR					# ATTEMPT	S	SUCCESSI		COMPLICAT	IONS See Ref. She	et
15:50	IO- rt tib	ıa				1		☑ YES □	NO			
15:44	CPR							☐ YES ☐				
:								☐ YES ☐	NO			
:								☐ YES ☐	NO			
:								☐ YES ☐	NO			
VITAL SIGNS		1				1					See Ref. Sheet	
15:51	PULSE 0	SYS E	3P D	IA BP	RESP 0		02 S	AT	GCS 1		GCS VERBAL 1	GCS MOTOR 1
15.51	U						30		'		•	'
:												
:												
:												
ADV DIRECTI State DNR Other Healt	Form	☐ Family ☐ None	Request DNR (r		Living Will Other	DEST Man i		ON k Medical Ce	enter			
					ine Med Co er Choice Physician's (ocol	Choice		ED DISPOSITION Admit-floor Admit-ICU Death Discharge Transfer-other hosp			HOSPITAL DISPOSITION Death Discharge Transfer-other hosp Transfer-nursing home Transfer-other Transfer-tehab	
NARRATIVE: Front passe		went off ro	ad down a di	tch. Upon E	MS arriva	Il patient in	traur	matic arrest	. Pati	ent was extri	cated and load	led into
Ambulance.	CPR was i	n progress.	An IO was p	laced in the	right tibi	a and fluids	beg	an.				
CREW MEMB	ER			CREW MEM	IBER	_			CRE	W MEMBER		
CREW MEMB	ER			CREW MEM	IBER				CRE	EW MEMBER		42

Man in Black Medical Center

Patient Sticker: Jane Krash 4/16/1979 MR# 934158

Date: <u>11/17/2017</u> Patient Arrival Time: <u>16:01</u>

				% N/A Pre-Hospit	al Treatment		
Transportin	ng Ambulanc	e					
O2 @	_L/min/			IV: Needle size_		Backboard	
NC	NRB A	mbu		IO NS		Long Short Ked	
Airway				Medications		Scoop	
Oral N	Nasal O	ther				Bilateral Head Supports	
ET tube	# @)	cm	C-Collar on: Yes X	No	Splint on	
						Ice on	
CPR started	d @ 1544					Dressing	
						Other	

Date of Injury: 11/17/17 Time of Injury: ND_____ Pre-hospital trauma team alert notification:

Hospital Trauma Team Activation Yes X No Time of Trauma Team Activation: 15:55

Trauma Te	am Members	
Team members notified:	Time Called	Time Arrived
‰ Nurses x	15:55	15:56
% Physician / CNP / PA	15:55	15:59
‰ Lab	15:55	15:58
% X-ray	15:55	15:59
% Other		

Type of Vehicle						
Car	Pedestrian					
Truck	ATV					
Motorcycle	Boat					
Bicycle						
Other						

	Mechanism o	f Injury	
Speed of vehicle	65 MPH	Rollover	
Number of vehicles		Ejected	
1 2 3 >3		Rearend	
Steering wheel deformity		T-Bone	
Starred windshield		Head on	

Restraint Devices								
Lap belt	Airbag deployed							
Shoulder belt	Helmet							
Car seat	Unrestrained							

Fall	Penetrating	Blunt	Thermal	Other
Fell from:	GSW	Assault	Burn	Hanging
	Stabbing	Crush	Heat exposure	Near drowning
xx				
Heightft.	Other	Other		
			Cold exposure	Animal related
			1	

Initial Assessment

				AIRWAY	IIIIIIII TIBBCBBI		DISA	DII IT	'V	
ъ										D: 1
	tent			Suctioning			Glasgow Coma Score	<u>; </u>	Initial	Disch
	al Aiı	•		Bag Mask			Eye Opening			
Na	ısal A	irway		O2	L.		Spontaneously	4	1	1
\mathbf{E}	Γ <u>7</u>	7.0	_	Comments			To Speech (Shout)	3		
Tr	ach						To Pain	2		
Cr	ico						No Response	1		
				BREATHING			Verbal Response			
		Spontaneous		Re	spiratory Effort		Oriented (Coos, Babbles)	5		
R	L			Normal	Agonal		Confused	4		
		Lung sounds		Shallow	Nasal flaring		(Consolable, Cry)			1
		Clear		Stridor Tachypnea			Inappropriate Words	3	1_	-
		Rales		Dyspnea	Grunting		(Persistent Cries, Screams)		1	
		Rhonchi/Whee	zes	Retracting	Absent		Incomprehensible 2			
		Decreased		Intercostal	Paradoxical		Words (Grunts, Restless)			
Х	Х	Absent		Substernal	Cough		No Responses	1	1	
Sm	oker	Yes	No	Unk			Motor	1		
			C	CIRCULATION			Obeys (Spontaneous)	6		
Car	illary	Refill:	None	Delayed (>	2 sec) Normal (< 2 se	ec)	Localized Pain	5	1.	
_	-	resent:	Carot	id Femoral	Radial Ped	al	Withdrawal to Pain	4	1	
Pal	pated	Pulse	Regu	lar	Irregular		Flexion to Pain 3 (Decorticate)		1	1
Hea	art tor	nes	Audil	ole	Absent					
Jugi	ılar V	ein Distension	No	Yes			Extension to Pain	2	1	
_	eding		Contr	rolled Unco	ntrolled NA		No Response to Pain	1	1	
	n Col		Pink		Dusky		•	•		3
			Pallo	r	Cyanotic		Total GCS Score		3	
			Flush	ed	Mottled					

				Area of Injury	
Allergie	s <u>UNK</u>				
:			{	}	(
Tetanus	: <u>LMP:_UNK</u>	Wt: <u>UNK</u>	>		
	Procedur	res	(-	-) (.	,)
Time	Procedure	Results	15.		/1
16:03	ET Tube X Combitube	Size 7.0		1	
		Secured @ 22 cm	/ /	. 11 ///	1/1
		FiO2 %	1/1.	, 1/5/1,	112
16:05	Central Line/ IV	Size 18 Fr	7.11	115m17	- Just
		Site R neck	W/	1 3 11	
		Solution_NS		1/	
	Warming Measures	Fluids			
		Mechanical			
		Bair Hugger			
		Blankets)	11	4
	NG Tube	Size	4	1	
		Color			
	Foley / Quick Cath	Size	A = Abrasion	Fc = Closed	OW = Open
		Color		Fracture	Wound
	Neck immobilization	CMS:	B = Burns	Fd = Dislocation	P = Paralysis
	C-Collar Applied: in place on	Before	C = Crepitus	Fo = Open Fracture	S = Edema
	arrival	After	D = Deformity	L = Laceration	Ta = Total
					Amputation
	Splinting	Location:	E = Ecchymosis		
					Amputation
					1 1

Secondary Assessment

	Head	d/Scalp				Eyes			Mout	:h		Ears			
Intact			Rash	PEA	RL			Intact			No drain	age			
Lacera	ition		Burns	Raco	coon eyes			Teeth			Drainage				
Abrasi	ons		Pain		1S follow			Missir	ig teeth		Right	Left			
Bruisi	ng		Battle	Visu	al Acuity	OD _			res intac		Clea	ar Clear			
			Signs			OS	_/	Comm	ents		Blo	od Clear			
			_												
T		Ne	eck	C C II		. •	1	Ches		•		Heart Sounds			
Intact				C-Collar		ymmetrica		(Chest Pa			Present Distant			
Swelli	ng ea midlii	•		Pain		symmetri	cai movemen	4	Locati			Absent			
	a mum a devia				r	Location		ι	Activi	ty @ on	set	Absent			
	emphys					repitus			Flail che						
	ılty swa		r			Location			Other	.St					
Diffice	arcy swa	IIO WIIIE	<u> </u>				omen / Pel		<u></u>						
				Abdome	n	1204	<u> </u>		wel So	unds		Pelvis			
Soft			Dister	nded	Las	t Intake:		Pre	sent		Intact				
Nonten	der		Rigid		F	ood		Ab	sent		Pain				
Tender					L	iquid		— Hy	peractiv	e	D1 1				
Comme	ents:							Hy	poactive	•	Blood at meat				
											Blood at rectu	m			
											Instability				
_				Posterio	r		_			Ex	xtremities				
Intact								ntact							
Deform	nıty							racture							
Pain								ain							
Comm	ents –							Deformity Comments							
							— '	omments							
							_								
								Reaction		n Scale	C	comments			
Time		D	D	RD	SoO2	02	S-slow	U-unequal	()-10	C	omments			
Time	Temp	P	R	BP	SaO2	O2 L/min	S-slow B-brisk F-fixed	U-unequal D-dilated = - Equal	I	0-10 Pain	C	comments			
	Тетр					L/min	S-slow B-brisk F-fixed C-closed by	U-unequal D-dilated = - Equal swelling	()-10					
1602	Тетр	0	0	0/P	90	L/min assisted	S-slow B-brisk F-fixed C-closed by	U-unequal D-dilated = - Equal swelling Left	I	0-10 Pain	PULSE CHECK	ζ.			
1602 1605	Temp	0	0	0/P 0/P	90 90	L/min assisted assisted	S-slow B-brisk F-fixed C-closed by Right	U-unequal D-dilated = - Equal swelling Left FD	I	0-10 Pain	PULSE CHECK	(
1602 1605 1608	Temp	0 0 0	0 0 0	0/P 0/P 0/P	90 90 90	L/min assisted assisted assisted	S-slow B-brisk F-fixed C-closed by Right FD	U-unequal D-dilated = - Equal swelling Left FD FD	I	0-10 Pain	PULSE CHECK PULSE CHECK PULSE CHECK	<u>(</u>			
1602 1605 1608 1612	Тетр	0	0	0/P 0/P 0/P 0/P	90 90 90 90	L/min assisted assisted assisted assisted	S-slow B-brisk F-fixed C-closed by Right FD FD	U-unequal D-dilated = - Equal swelling Left FD	I	0-10 Pain	PULSE CHECK PULSE CHECK PULSE CHECK PULSE CHECK	(((
1602 1605 1608 1612 1615	Temp	0 0 0	0 0 0	0/P 0/P 0/P 0/P 0/P	90 90 90	L/min assisted assisted assisted	S-slow B-brisk F-fixed C-closed by Right FD	U-unequal D-dilated = - Equal swelling Left FD FD	I	0-10 Pain	PULSE CHECK PULSE CHECK PULSE CHECK	(((
1602 1605 1608 1612	Temp	0 0 0	0 0 0	0/P 0/P 0/P 0/P	90 90 90 90	L/min assisted assisted assisted assisted	S-slow B-brisk F-fixed C-closed by Right FD FD	U-unequal D-dilated = - Equal swelling Left FD FD FD	I	0-10 Pain	PULSE CHECK PULSE CHECK PULSE CHECK PULSE CHECK	(((
1602 1605 1608 1612 1615 1620	Temp	0 0 0 0	0 0 0 0	0/P 0/P 0/P 0/P 0/P 0/P 0/P	90 90 90 90 90	assisted assisted assisted assisted assisted assisted assisted	S-slow B-brisk F-fixed C-closed by Right FD FD FD FD	U-unequal D-dilated = - Equal swelling Left FD FD FD FD	I	0-10 Pain	PULSE CHECK PULSE CHECK PULSE CHECK PULSE CHECK PULSE CHECK				
1602 1605 1608 1612 1615 1620	Temp	0 0 0 0 0	0 0 0 0 0	0/P 0/P 0/P 0/P 0/P 0/P	90 90 90 90 90 90	assisted assisted assisted assisted assisted assisted assisted	S-slow B-brisk F-fixed C-closed by Right FD FD FD FD FD FD	U-unequal D-dilated = - Equal swelling Left FD FD FD FD FD	I	0-10 Pain	PULSE CHECK PULSE CHECK PULSE CHECK PULSE CHECK PULSE CHECK PULSE CHECK	((((
1602 1605 1608 1612 1615 1620	Temp	0 0 0 0 0 0	0 0 0 0 0 0	0/P 0/P 0/P 0/P 0/P 0/P 0/P	90 90 90 90 90 90 90	assisted	S-slow B-brisk F-fixed C-closed by Right FD FD FD FD FD FD FD	U-unequal D-dilated = - Equal swelling Left FD FD FD FD FD FD FD	I	0-10 Pain	PULSE CHECK				
1602 1605 1608 1612 1615 1620 1624 1628		0 0 0 0 0 0	0 0 0 0 0 0 0	0/P 0/P 0/P 0/P 0/P 0/P 0/P 0/P	90 90 90 90 90 90 90 90	assisted	S-slow B-brisk F-fixed C-closed by Right FD	U-unequal D-dilated = - Equal swelling Left FD FD FD FD FD FD FD FD FD F	I	0-10 Pain	PULSE CHECK				
1602 1605 1608 1612 1615 1620 1624 1628 1632		0 0 0 0 0 0 0	0 0 0 0 0 0 0	0/P 0/P 0/P 0/P 0/P 0/P 0/P 0/P	90 90 90 90 90 90 90 90	assisted	S-slow B-brisk F-fixed C-closed by Right FD	U-unequal D-dilated = - Equal swelling Left FD FD FD FD FD FD FD FD FD F	I	0-10 Pain	PULSE CHECK				
1602 1605 1608 1612 1615 1620 1624 1628 1632		0 0 0 0 0 0 0	0 0 0 0 0 0 0	0/P 0/P 0/P 0/P 0/P 0/P 0/P 0/P	90 90 90 90 90 90 90 90	assisted	S-slow B-brisk F-fixed C-closed by Right FD	U-unequal D-dilated = - Equal swelling Left FD FD FD FD FD FD FD FD FD F	I	0-10 Pain	PULSE CHECK				
1602 1605 1608 1612 1615 1620 1624 1628 1632		0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 ced de	0/P 0/P 0/P 0/P 0/P 0/P 0/P 0/P 0/P	90 90 90 90 90 90 90 90	assisted	S-slow B-brisk F-fixed C-closed by Right FD	U-unequal D-dilated = - Equal swelling Left FD	Scale	Type	PULSE CHECK				
1602 1605 1608 1612 1615 1620 1624 1628 1632		0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 ced de	0/P 0/P 0/P 0/P 0/P 0/P 0/P 0/P	90 90 90 90 90 90 90 90	assisted	S-slow B-brisk F-fixed C-closed by Right FD	U-unequal D-dilated = - Equal swelling Left FD FD FD FD FD FD FD FD FD F	Scale	Type	PULSE CHECK	n Initials			
1602 1605 1608 1612 1615 1620 1624 1628 1632 1632		0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 ced de	0/P 0/P 0/P 0/P 0/P 0/P 0/P 0/P 0/P	90 90 90 90 90 90 90 90	assisted	S-slow B-brisk F-fixed C-closed by Right FD FD FD FD FD FD FD FD FD F	U-unequal D-dilated = - Equal swelling Left FD FD FD FD FD FD FD FD FD F	Scale	Type	PULSE CHECK	n Initials			
1602 1605 1608 1612 1615 1620 1624 1628 1632 1632		0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 ced de	0/P 0/P 0/P 0/P 0/P 0/P 0/P 0/P 0/P	90 90 90 90 90 90 90 90	assisted	S-slow B-brisk F-fixed C-closed by Right FD	U-unequal D-dilated = - Equal swelling Left FD	Scale	Type	PULSE CHECK	n Initials RKH			
1602 1605 1608 1612 1615 1620 1624 1628 1632 1632 Epi Epi		0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 ced de	0/P 0/P 0/P 0/P 0/P 0/P 0/P 0/P 0/P	90 90 90 90 90 90 90 90	assisted	S-slow B-brisk F-fixed C-closed by Right FD	U-unequal D-dilated = - Equal swelling Left FD FD FD FD FD FD FD FD FD F	Scale	Type	PULSE CHECK	n Initials RKH RKH			
1602 1605 1608 1612 1615 1620 1624 1628 1632 1632		0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 ced de	0/P 0/P 0/P 0/P 0/P 0/P 0/P 0/P 0/P	90 90 90 90 90 90 90 90	assisted	S-slow B-brisk F-fixed C-closed by Right FD	U-unequal D-dilated = - Equal swelling Left FD FD FD FD FD FD FD FD FD F	Rot	Type	PULSE CHECK 1602 1608 1612 1620	n Initials RKH RKH RKH			
1602 1605 1608 1612 1615 1620 1624 1628 1632 1632 Epi Epi Epi Epi		0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 ced de	0/P 0/P 0/P 0/P 0/P 0/P 0/P 0/P 0/P	90 90 90 90 90 90 90 90	assisted	S-slow B-brisk F-fixed C-closed by Right FD	U-unequal D-dilated = - Equal swelling Left FD FD FD FD FD FD FD FD FD F	Ron	Type	PULSE CHECK 1602 1608 1612 1620 1624	n Initials RKH RKH RKH RKH			
1602 1605 1608 1612 1615 1620 1624 1628 1632 1632		0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 ced de	0/P 0/P 0/P 0/P 0/P 0/P 0/P 0/P 0/P	90 90 90 90 90 90 90 90	assisted	S-slow B-brisk F-fixed C-closed by Right FD	U-unequal D-dilated = - Equal swelling Left FD FD FD FD FD FD FD FD FD F	Ron	Type	PULSE CHECK 1602 1608 1612 1620	n Initials RKH RKH RKH			

Input					Output		
Source	Prior to Arrival	ED	Total	Source	Prior to A	arrival ED	Total
IV Fluids	.5L	3.5L	4L	Urine			
				Emesis			
				Chest Tube		600n	nL
				Other			
Blood							
Fresh Frozen Plasma							

Personal Belongings

Clothes

Purse		
Wallet		
Jewelry		
Given to:		
Name		
Relationship		
Nursing Staff		
Nurse Notes: Patient arrived at 1601 in arres	st following a rollover MVC. Fro	ont seat passenger, airbag
deployed, no seatbelt. Patient has multiple co		
in progress and an IO was placed in right tib	ia by EMS prior to arrival. Pauc	ent is in PEA. Dr. Seeger
placed an EJ in right neck and intubated the	patient with a 7.0 E11. /mg of 6	epi were given. Dr. Benny
placed chest tube on the left side and perform	ned a thoracotomy. Time of dea	ith was 1632. County coroner
picked the patient up from the ED at 1739.		
DN Cionatura, DVII		
RN Signature: RKH		

Physician Checklist LifeCenter Referral/Death Notification replaces "lifeCenter"

Patient Name_Jane Krash	MRN <u>93</u>	<u>34158 </u>	
Date & Time of Death 16:32 11/17/1017	DOA:	D Yes D No	
Death Pronounced by Dr. Jack Benny			
Parent/Guardian: Notified Present Name	e/ Relationship: <u>Suzar</u>	nne Morris; Mother	
Reportable to Coroner? (see reference list in only liftyes, does the Coroner take jurisdictions)	• ,	Yes D No D No	
If not reportable to Coroner or Coroner does not autopsy Requested by Autopsy: D Yes D No	ot take jurisdiction:	Granted: D Yes	D No
Notify LifeCenter Referral Hotline, within 1 hotolification prior to death Notified by: Rachel Huntington, RN	<i>our</i> of death. *Must r	efer regardless of any e	arlier
Date Called_ <u>11/17/2017</u> Time_ <u>16:</u>	:41 Referenc	e Number (Required) <u>65</u>	5 <u>3781</u> _
D Referral Hotline determines patient is tissues suitable for request	•	or Tissue/Eye Donation. L	₋ist
D Patient determined Medically Uns	uitable for tissue and	d/or eye donation by the	е

Referral Hotline

Dr. Maybell Seeger from Man in Black Medical Center called to report the death of Jane N. Krash WF38. It was reported the decedent was involved in a one car accident at approximately 15:30 on 11/17/2017 where she was a front seat passenger. The minivan swerved to avoid a deer in the roadway and subsequently went off the roadway rolling over multiple times ultimately colliding with a tree. The decedent was reported to not have been restrained in her seat belt. The decedent was taken to MBMC by medics where she was admitted at 16:01 hours and she was pronounced dead at 16:32 hours by Dr. Benny. The decedent had abdominal injuries including trauma to her liver. No additional medical history was reported. The accident is being investigated by the Folsom County Sheriff's Department. The remains were brought to the FCCO for examination. Admitting blood was requested and medical records were placed in the Epic mailbox.

Luther Perkins, Investigator

POSTMORTEM EXAMINATION OF THE BODY OF

Jane N. Krash Case # - 22-3477 Folsom County

I.	. Blunt force torso trauma due to motor vehicle crash:		
	A.	Laceration, liver (extensive destruction of left and right lobes).	
	В.	Status post left thoracotomy with evidence of surgical dissection near thoracic aorta consistent with cross clamping attempt.	
	C.	Partial-thickness laceration, IVC near atrium attachment.	
	D.	Bilateral hemothoraces.	
II.	II. Ethanol and cocaine intoxication.		
III.	III. Arteriosclerotic cardiovascular disease.		
IV. Cholelithiasis.			
		OPINION	
	ny opinion force torse	that the cause of death of Jane N. Krash is: o trauma.	
It is m	ny opinion	that the manner of death is: Accident.	
		M.D., Forensic Pathologist Date County, Ohio	

A postmortem examination of the body of a 38-year-old white female, identified as Jane N. Krash, is performed at the Folsom County Coroner's Office on November 18, 2017. The examination is conducted by Marshall Grant, M.D., J.D., M.B.A., and is begun at 8:25 a.m.

CLOTHING:

The body is received clad in a shirt, which has been cut presumably during resuscitative attempts.

PROPERTY:

Accompanying valuables include two hair ties.

IDENTIFICATION TAGS:

A Montgomery County Coroner's Office identification tag is around the right ankle with a hospital identification band around the left wrist and a toe tag around the right great toe.

EXTERNAL EXAMINATION:

The body is that of a well-developed, well-nourished, adult female; 138 pounds and 66 inches, whose appearance is appropriate for the reported age. The body is cold following refrigeration. Rigor mortis is generalized. Livor mortis is red-purple, posterior, and blanches with pressure.

Scalp hair is dark brown with a normal distribution. Irides appear green. Sclerae and conjunctivae are clear, free of petechiae. The nose and ears are not unusual. Teeth are natural and the tongue appears normal.

The neck is unremarkable. The thorax is well developed with evidence of surgical intervention of the chest as well as abdomen. The anus and back are unremarkable. External genitalia are those of a well-developed adult female. Breasts are symmetrical and without palpable masses.

Upper and lower extremities are also well developed and symmetrical without significant injury.

IDENTIFYING MARKS:

Identifying marks include multiple tattoos on the abdomen, wrists, and back.

EVIDENCE OF MEDICAL INTERVENTION:

An endotracheal tube is appropriately positioned and inserted through the mouth. An oxygen saturation monitoring device is adhered to the left middle finger with an intravenous catheter inserted in the right forearm. There is an intraosseous catheter in the right tibia and an additional oxygen saturation monitoring device adhered to the left ear lobe. There is also a left thoracotomy with sutured incisions in these locations.

Internal examination reveals apparent surgical dissection around the lower thoracic aorta, suggestive of a site for cross-clamping.

EVIDENCE OF INJURY:

The right frontotemporal scalp has a 3 x 2 inch abrasion. The right lateral hip has a series of four 1 x 1/2 inch contusions, while the left middle finger has a $1/2 \times 1/2$ inch contusion. The right forearm has a pair of $1/2 \times 1/2$ inch contusions.

Despite minimal external injuries, internal examination reveals massive laceration involving the right and left lobes of the liver with approximately 50% of its parenchyma disrupted. There is 500 mL of blood in the left chest and 300 mL of blood in the right chest. Additionally, there is a partial-thickness rent of the endocardium of the inferior vena cava near its attachment to the right atrium. This injury is without accompanying hemopericardium.

INTERNAL EXAMINATION:

Lungs are atelectatic. The mediastinum is in the midline. The diaphragm is without abnormality. The abdominal cavity has minimal residual blood and the chest cavities have the previously-described bilateral hemothoraces.

CARDIOVASCULAR SYSTEM:

The heart is 280 grams. Epicardial surfaces are smooth, glistening, and unremarkable. The pericardial sac is free of significant fluid or adhesions. Coronary arteries arise normally, following a right-dominant pattern with 75% atherosclerotic narrowing of the left anterior descending coronary artery and 50% narrowing of the left circumflex vessel. The right main coronary artery is narrowed by 40% with atherosclerotic plaque. Cardiac chambers and valves have the usual size and position relationship. The right ventricular wall thickness is 0.4 cm; the free left ventricular wall and interventricular septum both measure 1.4 cm in thickness. The myocardium is uniform red-brown, free of abnormal markings with exception of the partial-thickness laceration of the inferior vena cava its right atrial attachment. Atrial and ventricular septa remain intact. The aorta and its major branches arise normally and follow the usual course with fatty streak atherosclerosis. The vena cava and its major tributaries are thin walled and patent, in the usual distribution.

RESPIRATORY SYSTEM:

Right and left lungs weigh 335 grams and 295 grams, respectively. The tracheobronchial tree is patent and mucosal surfaces intact. Pleural surfaces are translucent, smooth, and glistening. Pulmonary parenchyma is

atelectatic with minimal edema fluid or blood exuding from cut surfaces. Pulmonary arteries and veins are normally developed and patent.

DIGESTIVE/HEPATOBILIARY SYSTEM:

The esophagus is lined by intact tan smooth mucosa. The gastric mucosa is flattened by autolysis and the lumen contains 10 mL of brown liquid. Small and large intestines are unremarkable. The mesentery and omentum appear normal. The colon contains formed stool. The pancreas has the usual tan lobulated parenchyma, and the ducts are clear.

The 1185-gram liver has a markedly disrupted capsule and underlying brown parenchyma secondary to trauma. The thin-walled gallbladder contains multiple gallstones as well as 20 mL of viscid bile; extrahepatic biliary tree is patent.

ENDOCRINE SYSTEM:

Pituitary, thyroid, and adrenal glands are unremarkable.

GENITOURINARY SYSTEM:

Normal-shaped kidneys are symmetrical and together are 235 grams. Capsules are smooth, thin, semitransparent, and strip with ease from the underlying smooth, red-brown cortical surfaces. Cortices are sharply delineated from the medullary pyramids. Calyces, pelves, and ureters are unremarkable. The urinary bladder contains no urine, with 300 mL of urine in the Foley catheter collection device. The urinary bladder mucosa is gray-tan and intact.

The vaginal cuff is unremarkable. The uterus and ovaries are those of a reproductive-age female without evidence of a current gestation. The right ovary does have a benign-appearing smooth-walled cyst.

HEMATOPOIETIC SYSTEM:

The thymus is dispersed in anterior mediastinal fat. The 90-gram spleen has a smooth intact capsule covering red-purple parenchyma. Regional lymph nodes have the usual distribution and appearance. Bone marrow is red-brown and homogeneous, without focal abnormality.

MUSCULOSKELETAL SYSTEM:

The bony framework, supporting musculature, and soft tissues are not unusual.

NECK:

Examination of the soft tissues of the neck, including strap muscles and large vessels, reveals no

abnormalities. The hyoid bone and larynx are intact. The tongue is serially sectioned and unremarkable.

NERVOUS SYSTEM:

The brain weighs 1340 grams. Dura mater and falx cerebri are intact, and leptomeninges thin and delicate.

Cerebral hemispheres are symmetrical, with a normal pattern and distribution of sulci and gyri. Structures at

the base of the brain, including cranial nerves and blood vessels, are intact and free of abnormality. Sections

of the cerebral hemispheres reveal no lesions within the cortex, subcortical white matter, or deep

parenchyma of either hemisphere. Cerebral ventricles are of normal caliber, containing clear cerebrospinal

fluid. Sections through the brainstem and cerebellum are unremarkable.

SPECIAL STUDIES:

Routine toxicology studies reveal ethanol and marijuana intoxication.

MICROSCOPIC EXAMINATION

HEART: Myocardium is unremarkable as is the sinoatrial (SA) node. Attempted sections of the

atrioventricular (AV) node contain no conduction tissue; however, there is abundant extravasated

blood in the right atrium, consistent with gross partial-thickness laceration at the IVC within this area.

LUNGS: Anthracosis and diffuse alveolar collapse (consistent with gross atelectasis).

LIVER: Intraparenchymal fragmentation consistent with gross laceration. There is also mild steatosis.

ADRENAL GLAND, KIDNEY, PITUITARY GLAND, SPLEEN, BRAIN, AND PANCREAS: No significant histopathologic

abnormality in sections examined.

MEG:sm

11/19/2017

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CHEMISTRY REPORT

Patient: Krash, Jane N. MRN : 934158 DOB: 4/16/1979 ENCOUNTER NO: 49761304

Date: 11/17/2017

Time: 16:15

Toxicology Urine Results Group:

	Result
Amphetamine	Negative
Barbiturates	Negative
Benzodiazepine	Negative
Buprenorphrine	Negative
Cannabinoid	Negative
Cocaine	Positive
Methadone	Negative
Methamphetamine	Negative
Oxycodone	Negative
Prooxyphene	Negative
Opiates	Negative
Tricyclic Antidepressent	Negative