

Crash Reports

Prepared by Ken Digges

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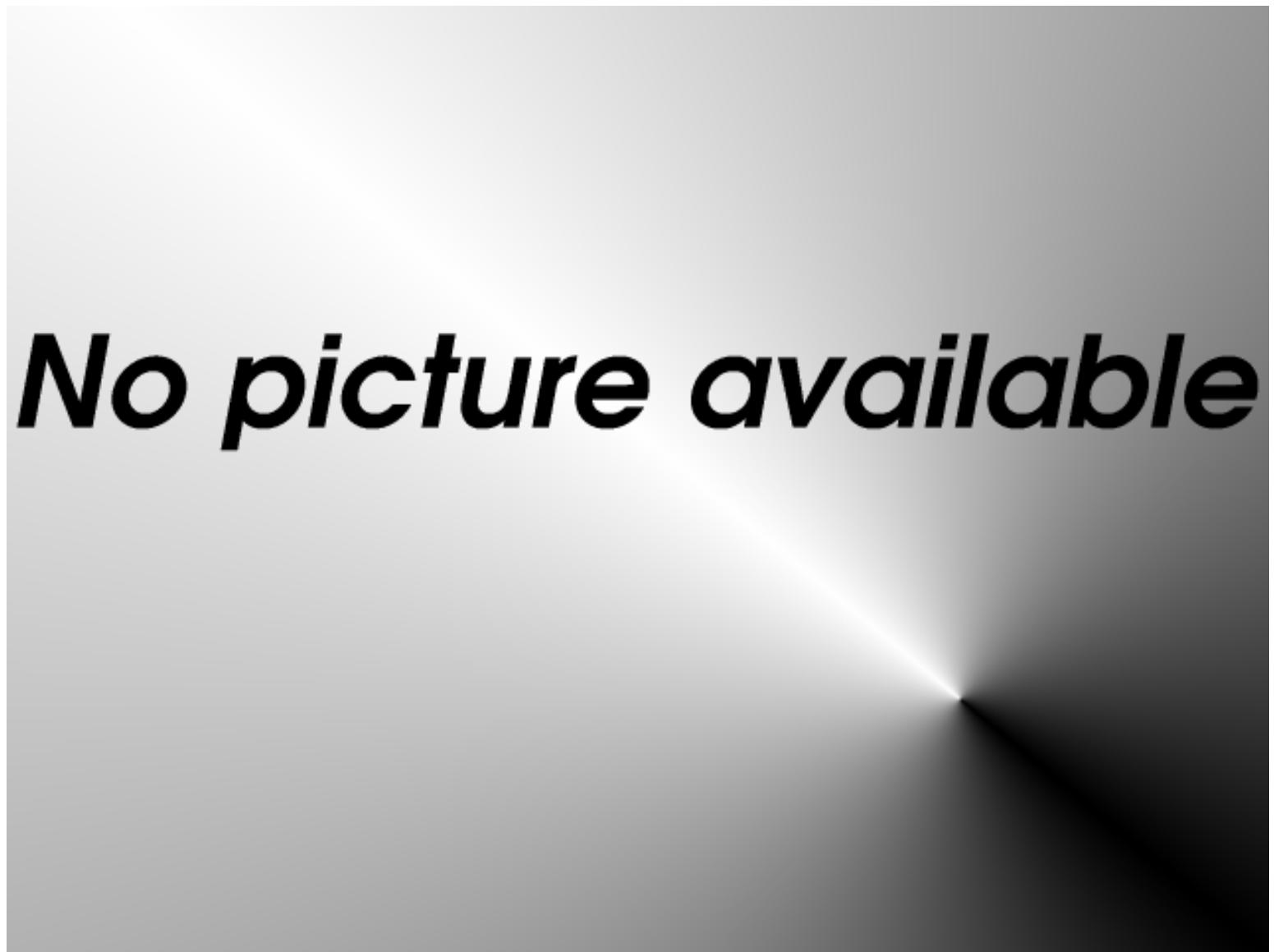
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1 Case 2003-3-73

Summary:

V1, a 1992 Acura Vigor was traveling eastbound on a two-lane urban roadway, on approach to a 4-leg intersection. V2 was traveling northbound on a one-way roadway, on approach to the same intersection. V3 was stopped and V4 was parked both facing west in the west sector of the intersection. The roadways were bituminous, straight, level and dry. As V1 and V2 entered the intersection, the frontal area of V2 impacted the right side surface of V1, resulting in moderate damage. At this point, V1 was re-directed in a clockwise rotation into the west sector of the intersection as the left front side surface was struck by the frontal area of V3. This secondary impact continued the clockwise rotation as the left rear side surface impacted the frontal area of V4 (parked). All vehicles came to rest in close proximity to the final point of impact. V1 was towed due to disabling damage. The two occupants of V1 sustained "A" injuries. They were transported for treatment and admitted. V2 was also towed due to disabling damage. The driver sustained "C" injuries and was transported to the hospital for treatment. V3 was driven from the scene as the driver was not reportedly injured, however, the two passengers sustained "C" injuries and were transported to the hospital for treatment. V4 was not towed, and was legally parked (with no occupants).)



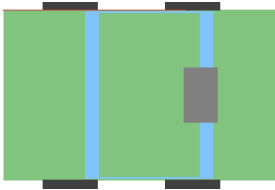
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Acura	Vigor	1992	1	28	MALE	4=Severe
1	4-DR SEDAN/HDTOP	Acura	Vigor	1992	2	31	MALE	4=Severe
2	LARGE UTILITY	Cadillac	Escalade	2002	1	37	MALE	7=Unk. sev.

Occupant: 2003-3-73-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Unknown
Type of Fuel Tank	Unknown type
Fuel Tank Location	Unknown
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Unknown
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	MODERATE 1
CDC	2 R Y A W 3
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 3

NASS Weighting Factor

Weighting factor	25.148
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	18

Vehicle Factors

Make-Model	Acura Vigor
Year	1992
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	143

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Maneuver	99
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	28	Height	999	Weight	999
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			9		

Restraint Factors

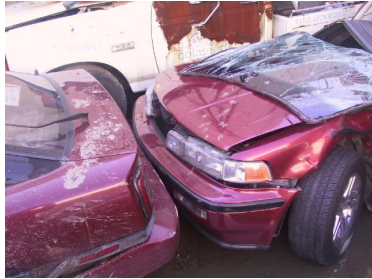
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-3-73-1-1
MAIS	4=Severe
Seat Position	Front left side

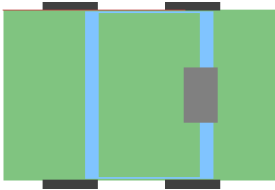
AIS Level	Injury Description	Contacts
4=Severe	Lung contusion, bilateral	Seat, back
2=Moderate	Awake on admission, prior unconscious, length NFS	Other noncontact

Occupant: 2003-3-73-1-2



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Unknown
Type of Fuel Tank	Unknown type
Fuel Tank Location	Unknown
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Unknown
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	MODERATE 1
CDC	2 R Y A W 3
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 3

NASS Weighting Factor

Weighting factor	25.148
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	18

Vehicle Factors

Make-Model	Acura Vigor
Year	1992
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	143

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Maneuver	99
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	31	Height	999	Weight	999
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			9		

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-3-73-1-2
MAIS	4=Severe
Seat Position	Front right side

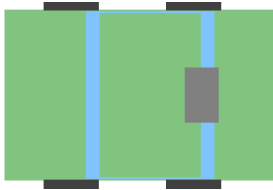
AIS Level	Injury Description	Contacts
4=Severe	Unconscious on admission, moves appropriately only to pain	Right B pillar
2=Moderate	C-spine dislocation no bone or cord involvement NFS	Other noncontact
1=Minor	Scalp contusion	Unknown SOURCE
1=Minor	Upper extremity skin contusion	Right interior
1=Minor	Upper extremity skin laceration, minor	Right interior
1=Minor	Facial skin abrasion	Right B pillar
1=Minor	Facial skin laceration, minor	Right B pillar

Occupant: 2003-3-73-2-1



Fire Information

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	9 99
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	25.148
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	ONE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Cadillac Escalade
Year	2002
Class	TRUCK
Body Type	LARGE UTILITY
Weight	264

Pre-Crash Driver Data

Accident Type	86
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Maneuver	99
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	37	Height	999	Weight	999
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			9		

Restraint Factors

Restrain	99
AOPS	VIN DET AIR BAG
Airbag Deployment	9
Airbag Deployment - 1 st Seat	9
Airbag Deployment - Oth	9
Seat	

Injuries

Occupant	2003-3-73-2-1
MAIS	7=Unk. sev.
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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2 Case 2003-9-35

Summary:

V1 was traveling east in lane two of a four-lane, divided roadway, approaching an intersection. V2 was traveling west in lane four of a four-lane divided roadway attempting to turn left at the intersection. As both vehicles entered the intersection the front of V1 contacted the right side of V2. Both vehicles were towed from the scene. V2 sustained severe right plane damage; it was equipped with a driver's frontal airbag, which deployed. The driver of V1 was uninjured and not transported to a medical facility. The driver of V2 was transported (ambulance) to the hospital for reported incapacitating injuries; the driver was hospitalized.)



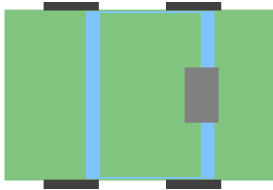
Vehicle#	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE PICKUP	Chevrolet	Unk Lt Truck	1977	1	25	MALE	0=None
2	4-DR SEDAN/HDTOP	Toyota	Corolla	1993	1	41	MALE	4=Severe

Occupant: 2003-9-35-1-1



Fire Information

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	9 99
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	61.893
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Chevrolet Unk It Truck
Year	1977
Class	PASSENGER CAR
Body Type	LARGE PICKUP
Weight	999

Pre-Crash Driver Data

Accident Type	69
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	25	Height	183	Weight	82
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-9-35-1-1
MAIS	0=None
Seat Position	Front left side

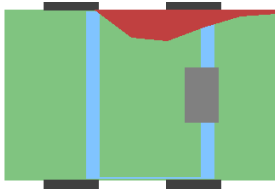
AIS Level	Injury Description	Contacts
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Occupant: 2003-9-35-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R Z A W 3
Damage (C1-C6)	4 8 24 44 39 0
Crush (L and D)	284 -49
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	61.893
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Toyota Corolla
Year	1993
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	109

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	OPP DIR-OVR RGHT
Attempted Avoidance Maneuver	99
Pre-impact Stability	9
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	41	Height	999	Weight	999
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

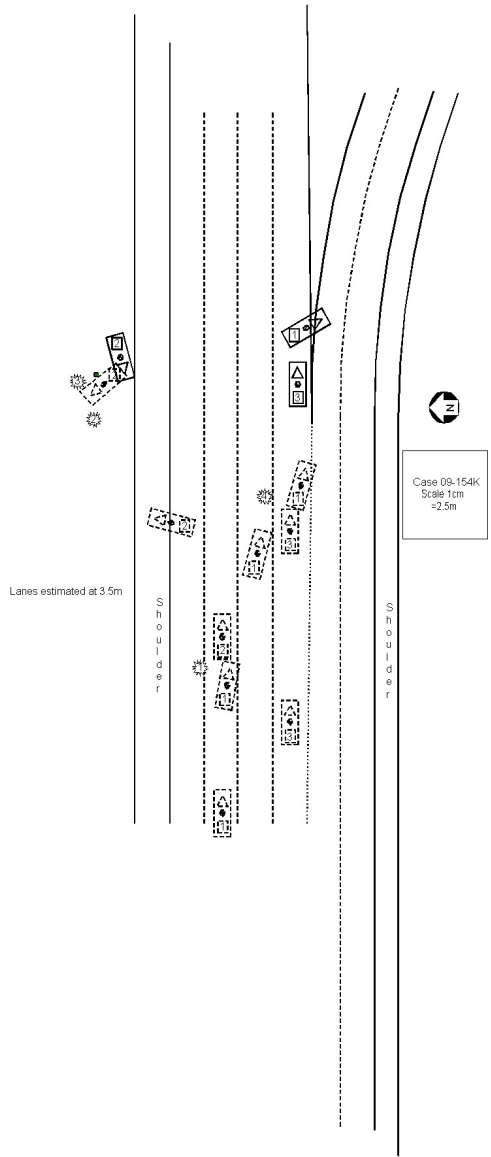
Occupant	2003-9-35-2-1
MAIS	4=Severe
Seat Position	Front left side

AIS Level	Injury Description	Contacts
4=Severe	Intracerebral hematoma, small (<30ccs)	Right interior
1=Minor	Scalp laceration, minor	Right interior
3=Serious	Lung contusion, unilateral	Right interior

3 Case 2003-9-154

Summary:

V1 (in lane 5), V2 (in lane 5) and V3 (in lane 3) were headed eastbound on a 6-lane highway. V1 approached V2 from behind; V1 veered to the right and struck V2 (EVENT 1 - V1's front strikes V2's rear). The force of this impact sent V2 off to the roadway to the left, where it struck an embankment (EVENT 2 - right plane) and a tree (EVENT 3 - right plane). (Scene inspection did not reveal this area of impact.) After Event 1, V1 continued forward and to the right, entering lane 3. It collided with V3 (EVENT 4 - V3's front strikes V1's rear). All vehicles were towed due to damage. The driver of V2 was reported transported and hospitalized for 4 days. There were no other injuries reported.)



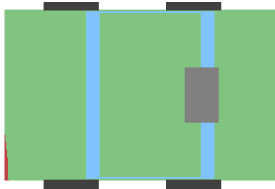
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Honda	Accord	1997	1	34	MALE	0=None
2	4-DR SEDAN/HDTOP	Honda	Accord	1994	1	62	MALE	3=Serious
3	4-DR SEDAN/HDTOP	Saturn	SL	1995	1	67	MALE	0=None

Occupant: 2003-9-154-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	SIX
Roadway Alignment	CURVE LEFT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Honda Accord
Year	1997
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	130

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	14 -14 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Y E W 2
Damage (C1-C6)	5 4 0 0 0 0
Crush (L and D)	157 -46
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 3

Pre-Crash Driver Data

Accident Type	24
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	Same DIR-LOSPEED
Attempted Avoidance Manuever	99
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	23.791
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DRIVER Factors

Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	34	Height	999	Weight	999
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-9-154-1-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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Occupant: 2003-9-154-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	SIX
Roadway Alignment	CURVE LEFT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Honda Accord
Year	1994
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	127

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	22 -4 -22
Est. δV with sequence number	DELTA V CODED 3
CDC	3 R P A W 3
Damage (C1-C6)	0 1 4 8 41 0
Crush (L and D)	178 43
Object Contacted 1	LARGE TREE
Object Contacted 2	VEHICLE NO. 1

Pre-Crash Driver Data

Accident Type	25
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	23.791
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DRIVER Factors

Rollover Characteristics		Age	62	Height	163	Weight	63
Number of Events		Gender		MALE			
Rollover Initiation Type		Ejection		No EJECTION			
Location of Rollover Initiation		Ejection Area		No EJECTION			
Rollover Initiation Object	Contacted	Entrapment		Not ENTRAPPED			
Location on Vehicle where Principal Tripping Force was Applied							
Direction of Initial Roll							

Restraint Factors

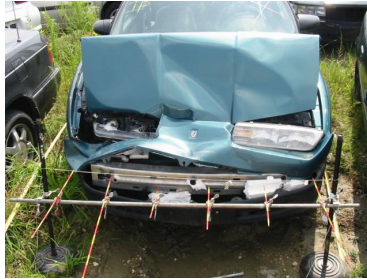
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-9-154-2-1
MAIS	3=Serious
Seat Position	Front left side

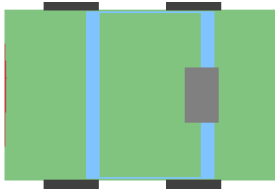
AIS Level	Injury Description	Contacts
3=Serious	Single rib fracture with hemo-/pneumothorax	Steering comb

Occupant: 2003-9-154-3-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	13 -13 -2
Est. δV with sequence number	DELTA V CODED 4
CDC	12 F D E W 2
Damage (C1-C6)	0 1 2 3 1 0
Crush (L and D)	132 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	23.791
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	SIX
Roadway Alignment	CURVE LEFT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Saturn SL
Year	1995
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	105

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	Same DIR-OV LEFT
Attempted Avoidance Manuever	BRAKE W/ LOCKUP
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	67	Height	180	Weight	88
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

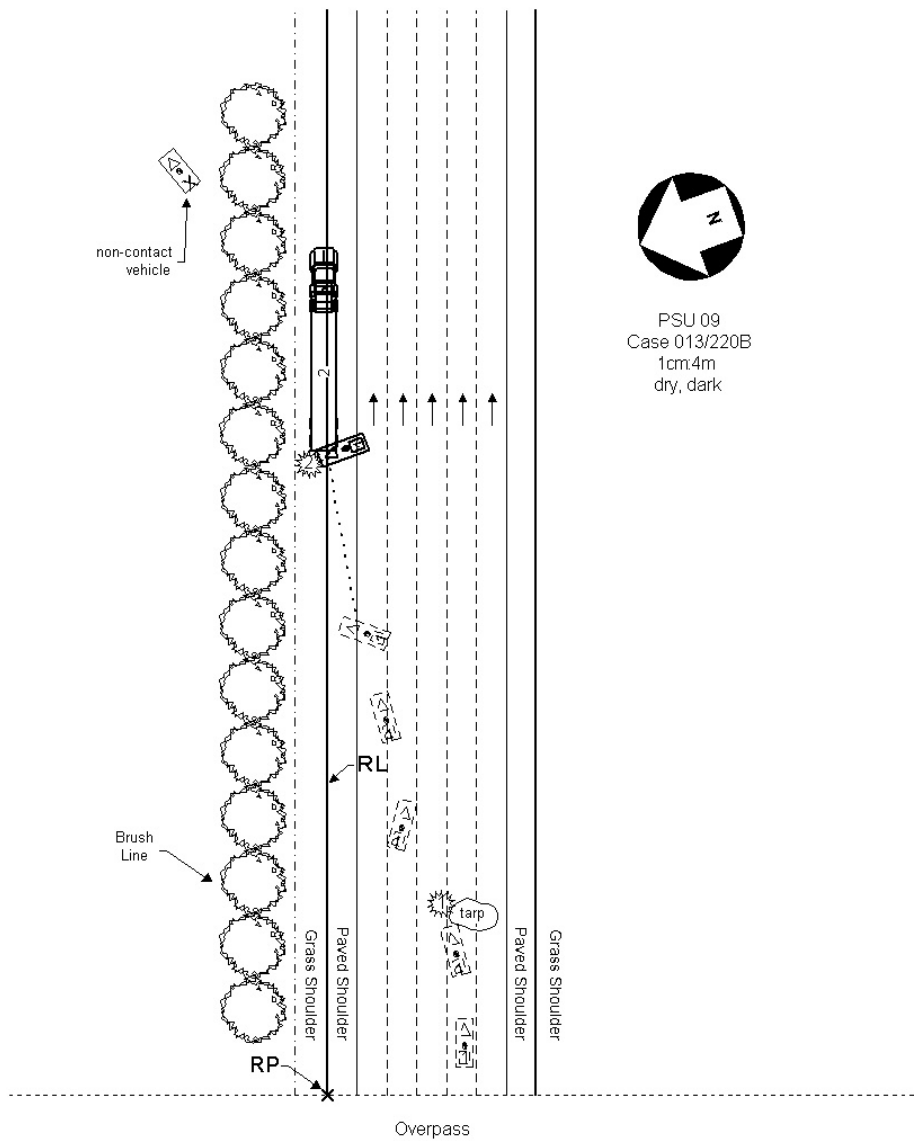
Occupant	2003-9-154-3-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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4 Case 2003-9-220

Summary:

Vehicle one is a '97 Nissan Altima driven by a 26-year-old male. Vehicle two is a '99 International 9100 series 3-axle tractor carrying an empty '93 Trailmobile refrigerated trailer. V2 is driven by a 53-year-old male. V1, V2, and a non-contact vehicle were all traveling east on a dry, 55mph, five lane, interstate roadway with a 2



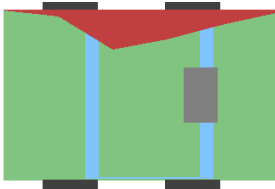
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Nissan	Altima	1997	1	26	MALE	4=Severe

Occupant: 2003-9-220-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	SEVERE 2
CDC	2 R D A W 5
Damage (C1-C6)	3 21 42 57 8 0
Crush (L and D)	340 50
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	OBJ FELL FRM VEH

NASS Weighting Factor

Weighting factor	26.744
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Nissan Altima
Year	1997
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	129

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OBJECT IN ROAD
Attempted Avoidance Manuever	99
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	26	Height	180	Weight	66
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-9-220-1-1
MAIS	4=Severe
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Right B pillar
1=Minor	Facial skin abrasion	Right wind frame
1=Minor	Facial skin abrasion	Right wind frame
1=Minor	297402	Right wind frame
2=Moderate	Maxillary fracture, closed	Right B pillar
1=Minor	Mandible fracture, closed, location NFS	Right B pillar
4=Severe	Basilar skull fracture, open, with brain tissue loss.	Right B pillar
3=Serious	Pituitary injury, NFS	Right B pillar
3=Serious	Cerebral subarachnoid hemorrhage	Right B pillar
1=Minor	Upper extremity skin abrasion	Belt webb/buckle
1=Minor	690202	Seat, back
2=Moderate	Clavicle fracture	Right B pillar
3=Serious	Lung contusion, unilateral	Right B pillar
3=Serious	Single rib fracture with hemo-/pneumothorax	Right B pillar

5 Case 2003-9-239

Summary:

V1 was traveling north on a two lane, two way road under rainy, daylight conditions. V2 was traveling south on the same roadway. V1 lost control and entered the southbound lane. The front of V2 hit the right side of V1 (event 1). This impact caused the right of V1 to sideslap the left of V2 (event 2). V1 was towed due to damage and was equiped with two frontal airbags (nondeployed) and three point restraints (in use) in all occupied positions. V2 was also towed due to damage and was equiped with three point restraints in all occupied positions. The driver of V1 was transported to a treatment by ambulance for reported fatal injuries. The passenger in V1 was taken to the medical examiner's office with fatal injuries. The driver of V2 was transported to the medical examiner's office with fatal injuries.)

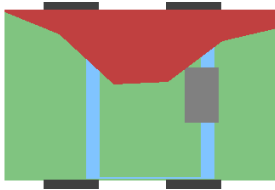
Vehicle	Body type	Make	Model	Year	Occupant's sex	Maximum known occupant ais
1	LARGE PICKUP	Chevrolet	C,K,R,V-series Pickup	2001	25 MALE	4=Severe
1	LARGE PICKUP	Chevrolet	C,K,R,V-series Pickup	2002	24 MALE	4=Severe
2	COMPACT UTILITY	Chevrolet	S-10 Blazer	1989	42 FEMALE-NOT PREG	6=Maximum

Occupant: 2003-9-239-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	43 22 -37
Est. δV with sequence number	DELTA V CODED 1
CDC	64 R D A W 6
Damage (C1-C6)	26 45 104 108 34 2
Crush (L and D)	318 -136
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	22.768
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Chevrolet C,K,R,V-series Pickup
Year	2001
Class	TRUCK
Body Type	LARGE PICKUP
Weight	202

Pre-Crash Driver Data

Accident Type	66
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	99
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	25	Height	168	Weight	68
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			JAMMED DOOR/FIRE		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-9-239-1-1
MAIS	4=Severe
Seat Position	Front left side

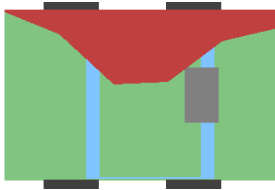
AIS Level	Injury Description	Contacts
1=Minor	Scalp contusion	Other occupants
4=Severe	Cerebral subdural hematoma, NFS	Other occupants
3=Serious	Cerebral subarachnoid hemorrhage	Other occupants
3=Serious	Cerebral subarachnoid hemorrhage	Other occupants
2=Moderate	Skull fracture, vault, closed (simple, undisplaced)	Other occupants
3=Serious	Dislocation of atlanto-axial joint (odontoid)	Other occupants
3=Serious	Lung laceration, unilateral NFS	Other occupants
3=Serious	>3 rib fractures one side & <3 other side, with stable chest	Other occupants
1=Minor	Abdominal skin abrasion	Belt webb/buckle
2=Moderate	Hepatic laceration NFS	Belt webb/buckle

Occupant: 2003-9-239-1-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	96

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	43 22 -37
Est. δV with sequence number	DELTA V CODED 1
CDC	64 R D A W 6
Damage (C1-C6)	26 45 104 108 34 2
Crush (L and D)	318 -136
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	22.768
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet C,K,R,V-series Pickup
Year	2001
Class	TRUCK
Body Type	LARGE PICKUP
Weight	202

Pre-Crash Driver Data

Accident Type	66
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	99
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	24	Height	170	Weight	78
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-9-239-1-2
MAIS	4=Severe
Seat Position	Front right side

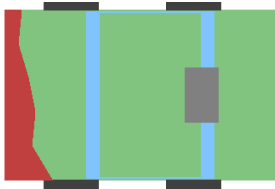
AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Flying glass
1=Minor	Facial skin abrasion	Flying glass
1=Minor	Facial skin abrasion	Flying glass
1=Minor	Facial skin laceration, minor	Right window+oth
1=Minor	Neck skin abrasion	Belt webb/buckle
3=Serious	Cerebral subarachnoid hemorrhage	Roof
3=Serious	Cerebral subarachnoid hemorrhage	Roof
2=Moderate	Cervical fracture without cord injury +/- dislocation NFS	Roof
2=Moderate	Clavicle fracture	Belt webb/buckle
4=Severe	>3 rib fxs on one side & <3 other side & hemo-/pneumothorax	Right B pillar
4=Severe	Thoracic aortic laceration NFS	Right B pillar
4=Severe	Lung contusion, bilateral	Right B pillar
1=Minor	Abdominal skin abrasion	Belt webb/buckle
2=Moderate	Hepatic laceration NFS	Right B pillar
2=Moderate	Kidney laceration NFS	Right B pillar
2=Moderate	Splenic laceration NFS	Belt webb/buckle
2=Moderate	Pelvic fracture NFS	Belt webb/buckle
2=Moderate	Radial fracture NFS (+/- styloid process, including Colles)	Right interior
2=Moderate	Ulnar fracture NFS	Right interior
1=Minor	Upper extremity skin abrasion	Other occupants

Occupant: 2003-9-239-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	62 -61 11
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 3
Damage (C1-C6)	70 41 45 35 20 26
Crush (L and D)	149 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	22.768
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet S-10 Blazer
Year	1989
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	151

Pre-Crash Driver Data

Accident Type	66
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	99
Pre-impact Stability	9
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	42	Height	183	Weight	108
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

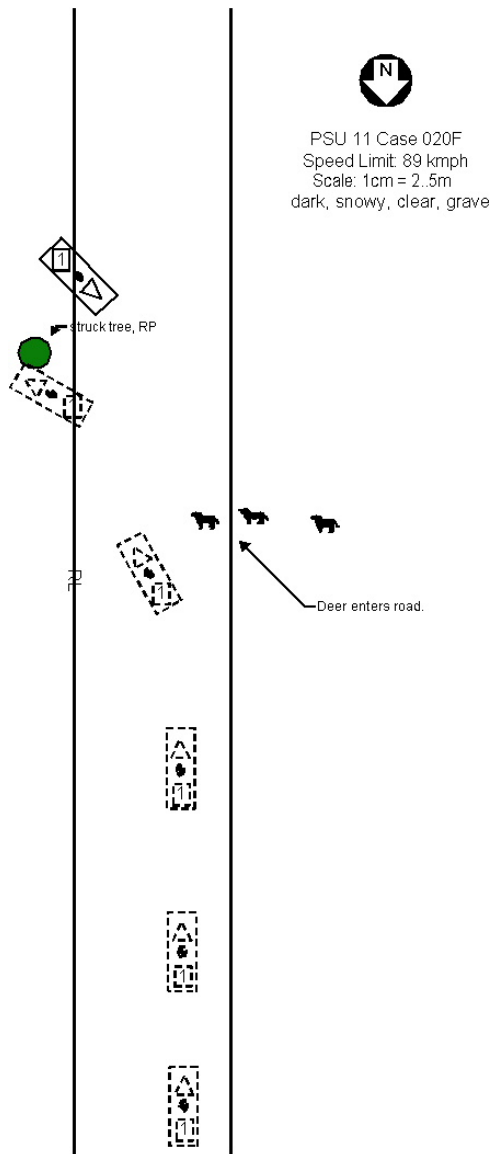
Occupant	2003-9-239-2-1
MAIS	6=Maximum
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	297602	Steering rim
3=Serious	Cerebral subarachnoid hemorrhage	Steering rim
3=Serious	Cerebral contusions, multiple, unilateral but NFS	Steering rim
6=Maximum	Brain stem laceration	Steering rim
5=Critical	Brainstem contusion	Steering rim
3=Serious	Cervical odontoid (dens) fracture, no cord injury	Steering rim
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Thoracic skin laceration, minor	Belt webb/buckle
1=Minor	690402	Seat, back
2=Moderate	Splenic laceration, minor (tear<3cms deep, no major vessel)	Belt webb/buckle
4=Severe	Lung contusion, bilateral	Belt webb/buckle
1=Minor	Myocardial contusion, minor	Belt webb/buckle
1=Minor	Upper extremity skin laceration, minor	Center panel
1=Minor	Upper extremity skin abrasion	Left apnel
1=Minor	Upper extremity skin laceration, minor	Left apnel
1=Minor	Leg skin laceration, minor	Left apnel
1=Minor	Leg skin laceration, minor	Left apnel

6 Case 2003-11-20

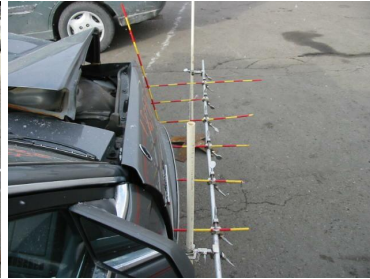
Summary:

V1 was traveling southbound on a two-lane, two-way snowy roadway. The driver swerved to avoid a deer in the road, lost control on the snowy road and departed the left side of the roadway. V1 rotated CCW and contacted a tree with its right side. V1 was towed due to damage. The driver of V1 was transported and hospitalized due to injuries.)



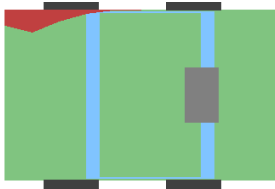
Vehicle	Body type	Make	Model	Year	Occ. #	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Oldsmobile	Cutlass FWD	1987	1	70	FEMALE-NOT PREG	3=Serious

Occupant: 2003-11-20-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	SNOW OR SLUSH
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	15 -8 -13
Est. δV with sequence number	DELTA V CODED 1
CDC	82 R F E N 3
Damage (C1-C6)	0 0 5 16 32 22
Crush (L and D)	120 189
Object Contacted 1	LARGE TREE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	238.986
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Oldsmobile Cutlass FWD
Year	1987
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	123

Pre-Crash Driver Data

Accident Type	8
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	ANIMAL APP ROAD
Attempted Avoidance Manuever	BRAKE+STEER LEFT
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	70	Height	165	Weight	73
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

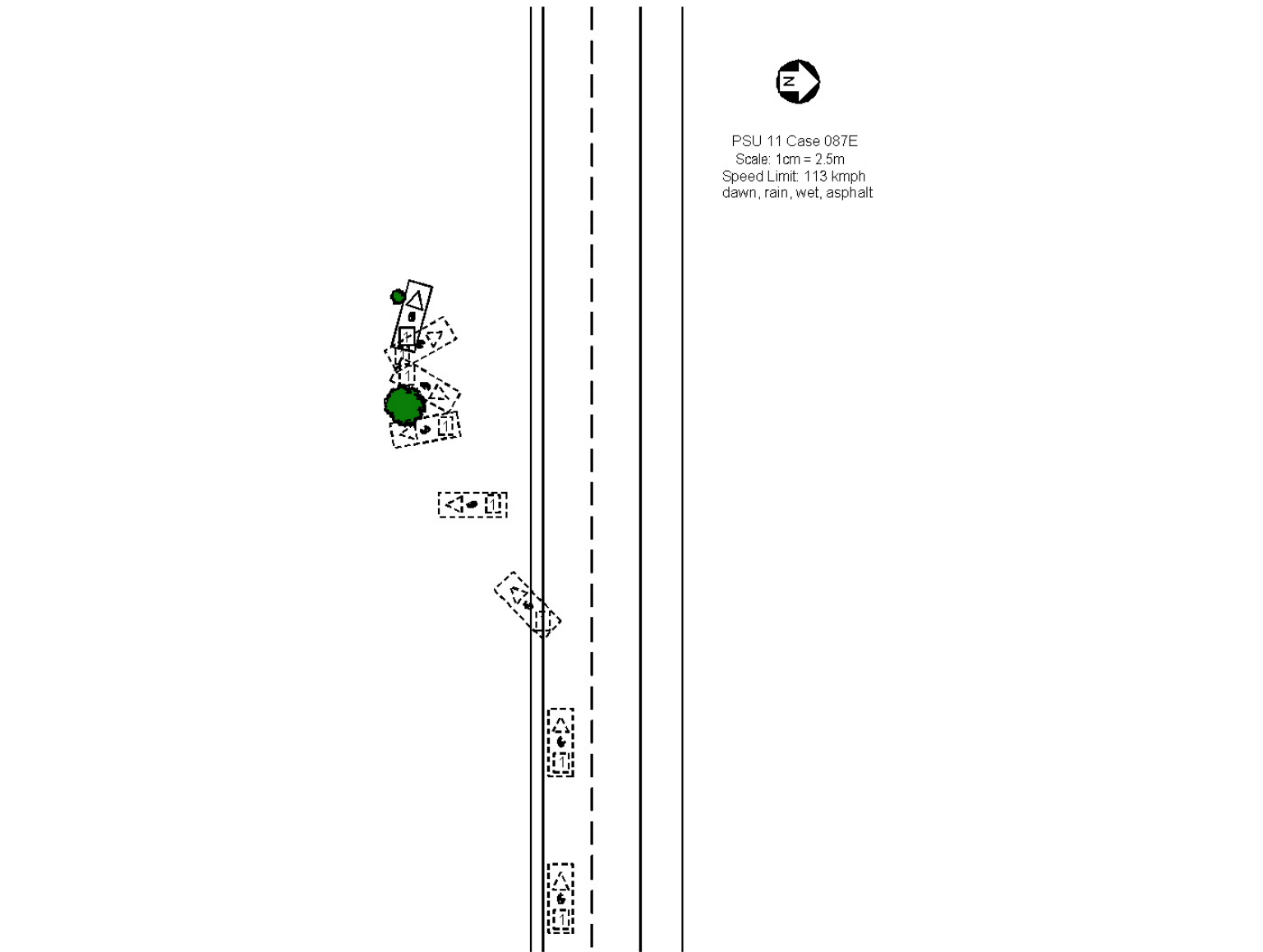
Occupant	2003-11-20-1-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Abdominal skin contusion	Belt webb/buckle
3=Serious	Retroperitoneal hemorrhage of hematoma	Belt webb/buckle

7 Case 2003-11-87

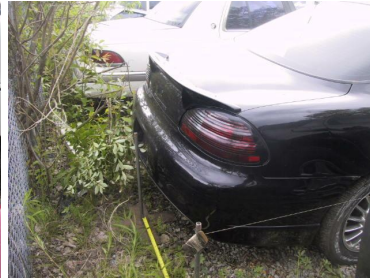
Summary:

V1, a 2001 Pontiac Grand Prix was traveling westbound at dawn on a two lane, divided with positive barrier wet asphalt roadway. The conditions were rainy. The driver of V1 lost control in a puddle of standing water that had collected on the roadway. V1 began a CCW turn, departed the roadway to the left, and struck a tree with its right side. V1 then continued its CCW turn, and struck another tree with its left side, where it came to rest facing west. V1 was towed due to damage. The driver of V1 was using the 3-point safety belt, and the front air bags deployed. The driver was transported and released due to injuries.)



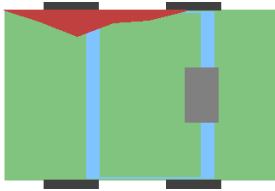
Vehicle	Body type	Make	Model	Year Occ.	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Pontiac	Grand Prix FWD	2001	11	42 FEMALE-NOT PREG	3=Serious

Occupant: 2003-11-87-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAWN
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Pontiac Grand Prix FWD
Year	2001
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	154

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	26 -13 -23
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R Y E W 3
Damage (C1-C6)	1 15 18 38 17 0
Crush (L and D)	231 121
Object Contacted 1	LARGE TREE
Object Contacted 2	LARGE TREE

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	POOR ROAD CONDIT
Attempted Avoidance Maneuver	BRAKE+STEER RT
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

NASS Weighting Factor

Weighting factor	252.800
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DRIVER Factors

Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	42	Height	163	Weight	61
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-11-87-1-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Cervical pedicle fracture, no cord injury	Other noncontact
1=Minor	Upper extremity skin abrasion	Air bag-DR side
1=Minor	Upper extremity skin contusion	Air bag-DR side
1=Minor	Abdominal skin contusion	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Knee bolster
3=Serious	Cervical lamina fracture, no cord injury	Other noncontact

8 Case 2003-12-27

Summary:

Vehicle 1 was headed south and turning left at the intersection in lane 3 of a 5 lane, dry, asphalt roadway after dark but with artificial lighting. Vehicle 2 was traveling north in lane 1 of the same roadway as vehicle 1. As vehicle 1 began a left turn the front of vehicle 2 contacted the right of vehicle 1. Vehicle 2 began a clockwise spin in the air above the ground while vehicle 1 began a violent counterclockwise spin as the right rear of vehicle 1 contacted the left rear of vehicle 2. During the spinning of the vehicles occupant 2 in vehicle 1 was completely ejected through the right front window, hit the pavement and slid on the pavement worsening her already serious injuries. Vehicle 2 mounted the east curb creating an impact to the right front wheel and then an impact to the left front wheel prior to final rest. Vehicle 1 came to rest in the roadway north of the intersection. Both vehicles were towed due to extensive damage sustained in the crash. All occupants of both vehicles were transported for medical attention. The frontal air bags in both vehicles deployed and all occupants except occupant 2 of vehicle 1 were wearing their lap and shoulder belts.)



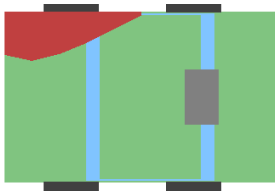
Vehicle	Body type	Make	Model	Year	Occ #	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Oldsmobile	Alero	2002	1	59	MALE	3=Serious
1	4-DR SEDAN/HDTOP	Oldsmobile	Alero	2002	2	58	FEMALE-NOT PREG	4=Severe
2	4-DR SEDAN/HDTOP	Ford	Crown Victoria	2002	1	46	MALE	2=Moderate

Occupant: 2003-12-27-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	45 -23 -39
Est. δV with sequence number	DELTA V CODED 1
CDC	82 R F E W 4
Damage (C1-C6)	5 25 45 61 71 62
Crush (L and D)	119 154
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	30.110
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Oldsmobile Alero
Year	2002
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	137

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	TURN LEFT-INTERS
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	59	Height	183	Weight	88
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-12-27-1-1
MAIS	3=Serious
Seat Position	Front left side

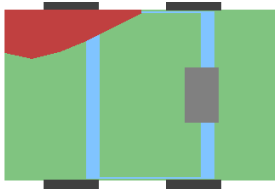
AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin abrasion	Belt webb/buckle
1=Minor	Leg skin abrasion	Belt webb/buckle
1=Minor	Leg skin laceration, minor	Center panel
1=Minor	690402	Seat, back
1=Minor	Thoracic spine strain, acute without fracture or dislocation	Seat, back
3=Serious	Lung contusion, uni-lateral	Seat, back
1=Minor	Upper extremity skin contusion	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Floor
2=Moderate	Cervical vertebral body fracture, no cord injury, <202=Moderate	Cervical spinous process fx, no cord injury, +/- dislocation
Seat, back		
2=Moderate	Metatarsal or tarsal fracture	Floor
1=Minor	Abdominal skin contusion	Belt webb/buckle
1=Minor	Abdominal skin laceration, minor	Belt webb/buckle
2=Moderate	Metatarsal or tarsal fracture	Floor

Occupant: 2003-12-27-1-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	45 -23 -39
Est. δV with sequence number	DELTA V CODED 1
CDC	82 R F E W 4
Damage (C1-C6)	5 25 45 61 71 62
Crush (L and D)	119 154
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	30.110
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Oldsmobile Alero
Year	2002
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	137

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	TURN LEFT-INTERS
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	58	Height	173	Weight	84
Gender					FEMALE-NOT PREG
Ejection					COMPLETE EJECT
Ejection Area					Right FRONT
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-12-27-1-2
MAIS	4=Severe
Seat Position	Front right side

AIS Level	Injury Description	Contacts
3=Serious	Cerebral subarachnoid hemorrhage	Ground
3=Serious	Cerebral subarachnoid hemorrhage	Ground
4=Severe	Cerebral subdural hematoma, small (<50ccs)	Ground
4=Severe	Cerebral intraventricular hemorrhage	Ground
2=Moderate	Pelvic fracture, closed	Ground
3=Serious	Humeral fracture, open/displaced/comminuted	Ground
1=Minor	Scalp avulsion, superficial (<100 cms ²)	Ground
4=Severe	Flail chest, with lung contusion	Ground
1=Minor	Leg skin contusion (hematoma)	Ground
1=Minor	Leg skin abrasion	Ground
1=Minor	Facial skin laceration, minor	Ground
3=Serious	Radial fracture, open/displaced/comminuted	Ground
2=Moderate	Ulnar fracture, closed	Ground
2=Moderate	Maxillary fracture, closed	Ground
1=Minor	Nose fracture, closed	Ground
4=Severe	Cerebellar hematoma, NFS	Ground

Occupant: 2003-12-27-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	99

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	32 -32 6
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 3
Damage (C1-C6)	6 39 63 86 90 80
Crush (L and D)	103 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	30.110
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Ford Crown Victoria
Year	2002
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	179

Pre-Crash Driver Data

Accident Type	69
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	STEERING RIGHT
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	46	Height	175	Weight	105
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-12-27-2-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Metatarsal or tarsal fracture	Foot controls
1=Minor	Metatarsal, phalangeal or interphalangeal joint dislocation	Foot controls
1=Minor	Neck skin contusion (hematoma)	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Knee bolster
1=Minor	Upper extremity skin laceration NFS	Left apnel
1=Minor	Leg skin contusion (hematoma)	Seat, back

9 Case 2003-12-91

Summary:

Vehicle 1 was headed west in lane 1 of a 3 lane, dry, asphalt roadway while vehicle 2 was headed east and turning left in lane 3 of a 3 lane, dry, asphalt roadway during daylight hours. As vehicle 2 began a left turn the front of vehicle 1 contacted the right front of vehicle 2. All 3 occupants of both vehicles were wearing their safety belts and the driver of vehicle 1 was seated in front of a driver's side airbag which deployed upon impact. All 3 occupants of both vehicles were transported to medical attention and both vehicles were towed.)



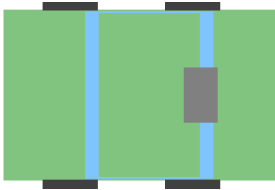
Vehicle #	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant AIS
1	LARGE PICKUP	Dodge	D,W-series Pickup	1995	1	18	MALE	1=Minor
1	LARGE PICKUP	Dodge	D,W-series Pickup	1995	2	19	MALE	1=Minor
2	LARGE PICKUP	Chevrolet	C,K,R,V-series Pickup	1991	1	45	MALE	3=Serious

Occupant: 2003-12-91-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	99

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	16 -15 6
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F 9 9 9 99
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	22.802
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Dodge D,W-series Pickup
Year	1995
Class	TRUCK
Body Type	LARGE PICKUP
Weight	191

Pre-Crash Driver Data

Accident Type	69
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	18	Height	185	Weight	77
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-12-91-1-1
MAIS	1=Minor
Seat Position	Front left side

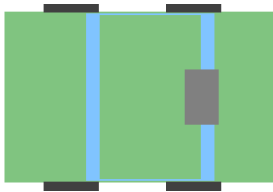
AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin abrasion	Air bag-DR side
1=Minor	Leg skin abrasion	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Belt webb/buckle
1=Minor	Upper extremity skin contusion	Air bag-DR side

Occupant: 2003-12-91-1-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	99

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	16 -15 6
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F 9 9 9 99
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	22.802
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Dodge D,W-series Pickup
Year	1995
Class	TRUCK
Body Type	LARGE PICKUP
Weight	191

Pre-Crash Driver Data

Accident Type	69
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	19	Height	183	Weight	84
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

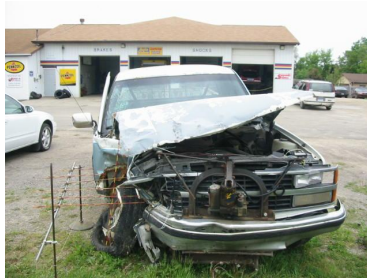
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-12-91-1-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Neck skin abrasion	Belt webb/buckle

Occupant: 2003-12-91-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	16 -12 -10
Est. δV with sequence number	DELTA V CODED 1
CDC	1 R F E W 4
Damage (C1-C6)	7 21 47 54 57 57
Crush (L and D)	85 185
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	22.802
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet C,K,R,V-series Pickup
Year	1991
Class	TRUCK
Body Type	LARGE PICKUP
Weight	203

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	TURN LEFT-INTERS
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	45	Height	178	Weight	109
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			JAMMED DOOR/FIRE		

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

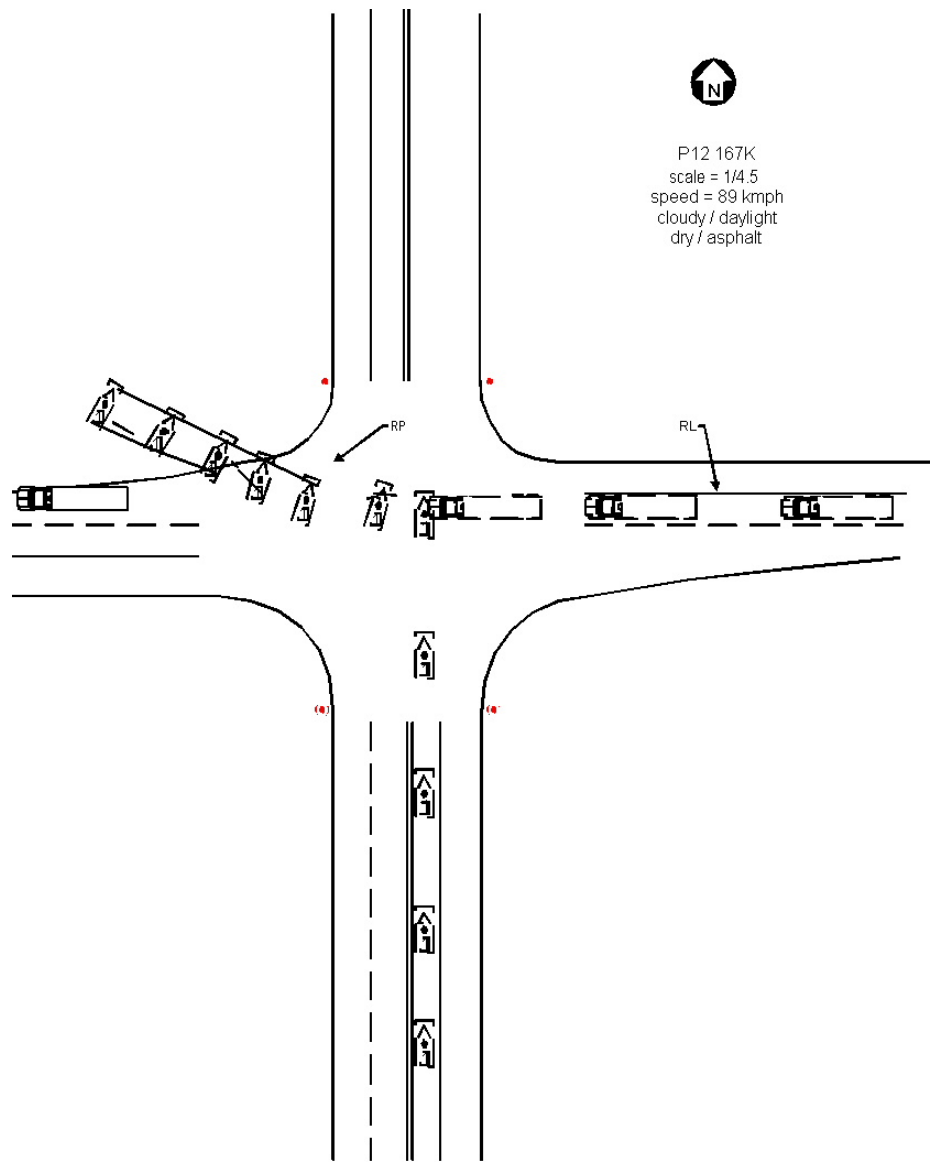
Occupant	2003-12-91-2-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Femoral shaft fracture	Steering rim
2=Moderate	Calcaneus fracture	Foot controls
1=Minor	297602	Mirror
1=Minor	Facial skin laceration, minor	Mirror
1=Minor	Leg skin contusion (hematoma)	Left apnel
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Leg skin laceration, minor	Foot controls
2=Moderate	Ankle collateral or cruciate ligament laceration	Foot controls
2=Moderate	Tibial fracture medial malleolus, open/displaced/comminuted	Foot controls

10 Case 2003-12-167

Summary:

Vehicle 1 was heading north in the 2nd lane of a 3 lane, 2 way, dry, asphalt roadway, during dry, daylight conditions. Vehicle 2 was heading west in the 2nd lane of a 3 lane, 2 way, asphalt roadway during the same conditions as vehicle 1. As vehicle 1 entered the intersection the right side of the vehicle was contacted by the front of vehicle 2 causing vehicle 1 to go off road on the north west side of the intersection and come to rest. Vehicle 2 came to rest on the roadway facing west. Vehicle 1 was towed from the scene of the crash due to severe damage to the right side. Vehicle 2 was driven from the scene. The occupant of vehicle 1 was wearing his lap shoulder belt. The frontal airbags in vehicle 1 did not deploy. The occupant of vehicle 1 was transported to a local trauma center where he was hospitalized for his injuries. There were no injuries reported to the occupant of vehicle 2.)



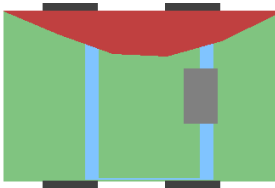
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Chevrolet	Lumina	1995	1	32	MALE	3=Serious

Occupant: 2003-12-167-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	DELTA V CODED 1
CDC	63 R D A W 4
Damage (C1-C6)	5 43 66 62 33 0
Crush (L and D)	303 19
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	22.802
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	Not REPORTED
Alcohol Test (< 95 indicates BAC 0.xx)	99

Vehicle Factors

Make-Model	Chevrolet Lumina
Year	1995
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	151

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	32	Height	175	Weight	86
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-12-167-1-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin contusion	Right B pillar
1=Minor	Leg skin abrasion	Knee bolster
2=Moderate	Scapular fracture	Right B pillar
2=Moderate	Acromioclavicular joint dislocation	Right B pillar
3=Serious	Lung contusion, uni-lateral	Oth interior obj
3=Serious	450211	Oth interior obj
2=Moderate	Cervical transverse process fracture, no cord injury	Right B pillar
2=Moderate	Hepatic laceration NFS	Oth interior obj
2=Moderate	Awake on admission, prior unconscious, length NFS	Right B pillar
1=Minor	Scalp contusion	Unknown SOURCE

11 Case 2003-12-172

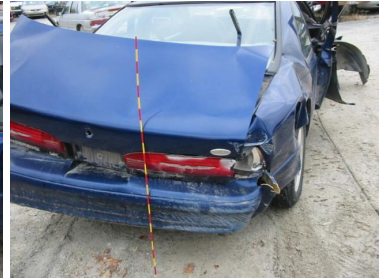
Summary:

Both vehicles were involved in the crash on a 3 lane, wet, asphalt roadway after dark and with little or no artificial lighting. Vehicle 1 had been involved in a prior crash and was stopped in the roadway in the center lane headed north west while vehicle 2 was in lane 2 headed south. The front of vehicle 2 contacted the right of vehicle 1. Vehicle 1 then rotated counterclockwise and the right of vehicle again struck vehicle 2 but on the left in a sideslap motion. Vehicle 1 kept spinning until the rear contacted the cement center wall. Both drivers were transported to medical attention and both vehicles were towed. The Airbags in vehicle 2 deployed while the airbag in vehicle 1 had already deployed in the prior accident and was unavailable for use in this crash.)



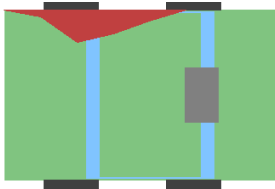
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Ford	Thunderbird	1994	1	20	MALE	3=Serious
2	4-DR SEDAN/HDTOP	Ford	Taurus	1999	1	61	FEMALE-NOT PREG	2=Moderate

Occupant: 2003-12-172-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	99

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	17 11 -13
Est. δV with sequence number	DELTA V CODED 1
CDC	44 R Y E W 3
Damage (C1-C6)	0 16 35 47 10 0
Crush (L and D)	202 42
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	CONCRETE BARRIER

NASS Weighting Factor

Weighting factor	44.235
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Ford Thunderbird
Year	1994
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	356

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	STOPPED IN LANE
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	20	Height	173	Weight	73
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			JAMMED DOOR/FIRE		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-12-172-1-1
MAIS	3=Serious
Seat Position	Front left side

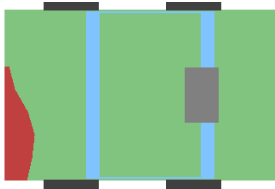
AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin laceration, minor	Flying glass
3=Serious	Unconsciousness <1 hour & neuro deficit	Other noncontact
1=Minor	Upper extremity skin contusion	Seat, back
1=Minor	Thoracic skin laceration, minor	Flying glass

Occupant: 2003-12-172-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	38 -38 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Y E W 2
Damage (C1-C6)	33 40 44 34 15 7
Crush (L and D)	145 -25
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	44.235
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Ford Taurus
Year	1999
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	151

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	STOPPED
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	61	Height	157	Weight	113
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

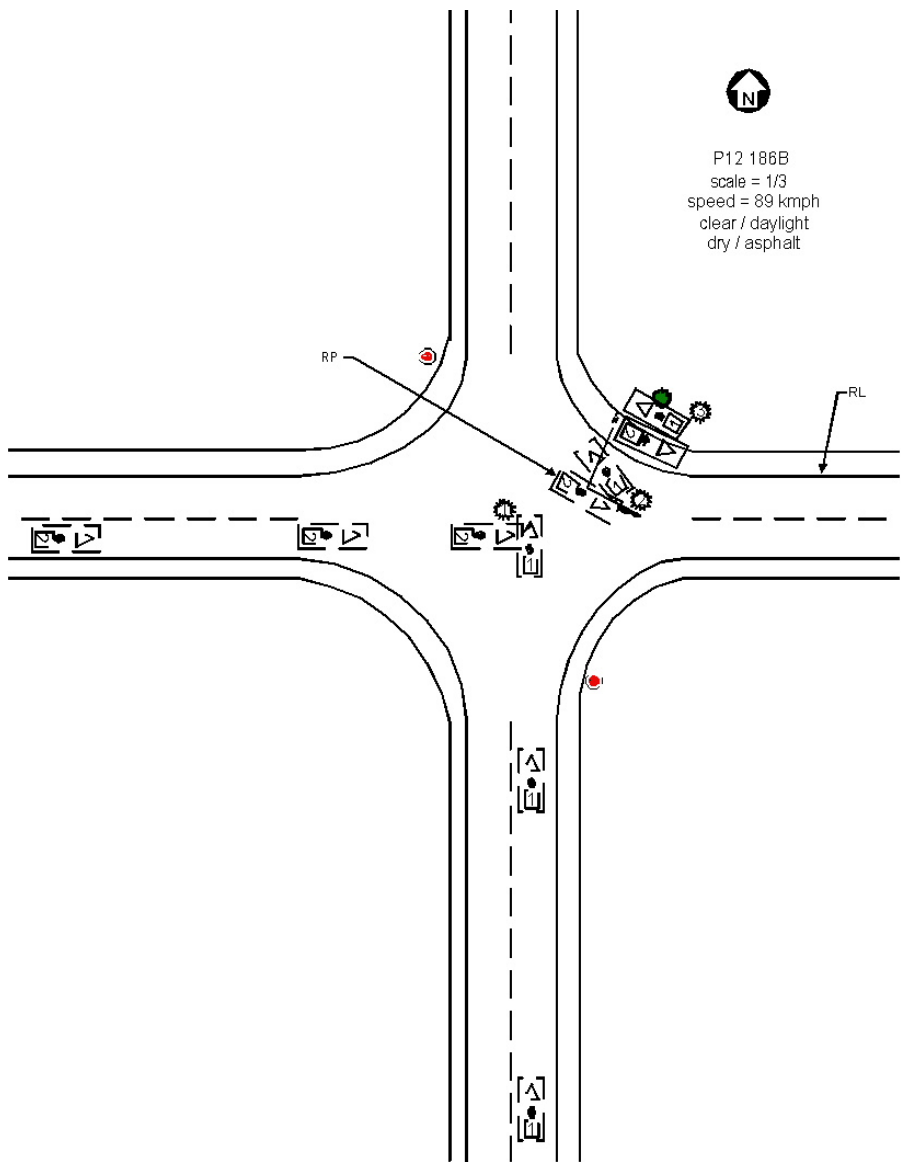
Occupant	2003-12-172-2-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Radial fracture, closed	Transmiss lever
1=Minor	Neck skin contusion (hematoma)	Belt webb/buckle
1=Minor	Upper extremity skin contusion	Belt webb/buckle
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Abdominal skin contusion	Belt webb/buckle
1=Minor	Ankle joint sprain	Foot controls

12 Case 2003-12-186

Summary:

Vehicle 1, a 1994 Jeep Grand Cherokee, was heading north on a 2 lane, 2 way, dry, asphalt, roadway during clear, daylight conditions. Vehicle 2, a 2002 Chevrolet Monte Carlo, was heading east on a 2 lane, 2 way, dry, asphalt roadway under the same conditions as vehicle 1. As vehicle 1 proceeded through the intersection its left side was contacted by the front of vehicle 2. This impact caused both vehicles to rotate slightly and contact again, with the left rear of vehicle 1 contacting the left front of vehicle 2. Vehicle 1 was then pushed off road on the north east corner of the intersection where the right side contacted a large tree and then came to rest against the tree. Vehicle 2 came to rest in the same area as vehicle 1 with its left front side almost resting against the left rear of vehicle 1. Both vehicles were towed due to damage, vehicle 1 due to severe damage. All four occupants involved in this crash were front seat occupants and they all had their lap shoulder belts on. The driver's airbag in vehicle 1 and both frontal airbags in vehicle 2 did deploy. The occupants of vehicle 1 were extricated from the vehicle transported to a local trauma center where they were hospitalized. The driver of vehicle 1 was hospitalized for 7 days before he passed away. The occupant of vehicle 1 is still hospitalized after 26 days in the hospital, he is a 6 year old child. The occupants of vehicle 2 were also transported to a local trauma center where occupant 1 was treated released for her injuries, but occupant 2 was hospitalized for 5 days.)



Vehicle	Body type	Make	Model	Year	Occ No	Occupant's sex	Maximum known occupant ais
1	COMPACT UTILITY	Jeep	Cherokee84-	1994	16	MALE	5=Critical
1	COMPACT UTILITY	Jeep	Cherokee84-	1994	6	MALE	5=Critical
2	2DR SEDAN/HT/CPE	Chevrolet	Monte Carlo(FWD)	2002	54	FEMALE-NOT PREG	1=Minor
2	2DR SEDAN/HT/CPE	Chevrolet	Monte Carlo(FWD)	2002	8	MALE	2=Moderate

Occupant: 2003-12-186-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	57 -20 -54
Est. δV with sequence number	DELTA V CODED 3
CDC	62 R Y A W 4
Damage (C1-C6)	15 61 70 55 13 0
Crush (L and D)	264 1
Object Contacted 1	LARGE TREE
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	28.099
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Jeep Cherokee84-
Year	1994
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	161

Pre-Crash Driver Data

Accident Type	89
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	16	Height	168	Weight	70
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-12-186-1-1
MAIS	5=Critical
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	690202	Left interior
2=Moderate	Hepatic laceration, minor (<3cms deep, EBL<202=Moderate	Splenic laceration, minor (tear<3cms deep, no major vessel)
Left interior		
1=Minor	Scalp abrasion	Head restraint
1=Minor	Abdominal skin abrasion	Seat, back
1=Minor	Leg skin contusion (hematoma)	Left hardware
1=Minor	Scalp laceration, minor	Head restraint
1=Minor	Leg skin contusion (hematoma)	Floor
4=Severe	Cerebral subdural hematoma, small (<50ccs)	Head restraint
4=Severe	Bladder laceration with perforation (full thickness)	Left hardware
4=Severe	Cerebral intraventricular hemorrhage	Head restraint
2=Moderate	Thoracic vertebral body fracture, minor (<203=Serious	Cerebral contusion, single, NFS
Head restraint		
3=Serious	Cerebral subarachnoid hemorrhage	Head restraint
3=Serious	Pelvic fracture, open/displaced/comminuted	Left interior
3=Serious	Pelvic fracture, open/displaced/comminuted	Left hardware
2=Moderate	Pelvic fracture, closed	Left hardware
5=Critical	Cerebral diffuse axonal injury	Head restraint
3=Serious	Lung contusion NFS	Left interior
1=Minor	Scalp laceration, minor	Head restraint

Occupant: 2003-12-186-1-2



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	57 -20 -54
Est. δV with sequence number	DELTA V CODED 3
CDC	62 R Y A W 4
Damage (C1-C6)	15 61 70 55 13 0
Crush (L and D)	264 1
Object Contacted 1	LARGE TREE
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	28.099
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Jeep Cherokee84-
Year	1994
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	161

Pre-Crash Driver Data

Accident Type	89
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	6	Height	112	Weight	23
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			JAMMED DOOR/FIRE		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-12-186-1-2
MAIS	5=Critical
Seat Position	Front right side

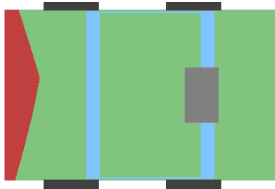
AIS Level	Injury Description	Contacts
5=Critical	Cerebral diffuse axonal injury	Right B pillar
4=Severe	Lung contusion, bilateral	Right B pillar
1=Minor	Facial skin contusion	Right interior
1=Minor	Leg skin contusion (hematoma)	Right hardware
2=Moderate	Pancreatic laceration, minor (no duct involvement)	Right B pillar
1=Minor	Conjunctiva injury	Right interior
1=Minor	297602	Right interior
5=Critical	Intracerebral hematoma, small, bilateral	Right B pillar
2=Moderate	Pelvic fracture, closed	Right B pillar
3=Serious	Orbit fracture, open/displaced/comminuted	Right interior
2=Moderate	Orbit fracture, closed	Other occupants
3=Serious	Basilar skull fracture, NFS	Other occupants
3=Serious	Cerebral contusions, multiple, bilateral but NFS	Right B pillar
1=Minor	Facial skin laceration NFS	Right interior

Occupant: 2003-12-186-2-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	9
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	33 -31 -11
Est. δV with sequence number	DELTA V CODED 1
CDC	81 F D E W 3
Damage (C1-C6)	15 29 42 52 37 21
Crush (L and D)	160 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	28.099
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet Monte Carlo(FWD)
Year	2002
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	152

Pre-Crash Driver Data

Accident Type	88
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	54	Height	152	Weight	91
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-12-186-2-1
MAIS	1=Minor
Seat Position	Front left side

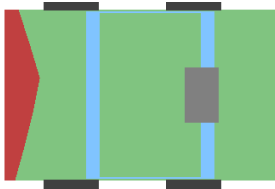
AIS Level	Injury Description	Contacts
1=Minor	Neck skin abrasion	Belt webb/buckle
1=Minor	Neck skin contusion (hematoma)	Belt webb/buckle
1=Minor	Abdominal skin contusion	Belt webb/buckle
1=Minor	Upper extremity skin contusion	Other occupants
1=Minor	Upper extremity skin laceration, minor	Other occupants
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Knee bolster
1=Minor	Upper extremity skin abrasion	Air bag-DR side

Occupant: 2003-12-186-2-2



Fire Information

Fire Occurrence	Minor fire
Fire Origin	9
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	33 -31 -11
Est. δV with sequence number	DELTA V CODED 1
CDC	81 F D E W 3
Damage (C1-C6)	15 29 42 52 37 21
Crush (L and D)	160 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	28.099
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet Monte Carlo(FWD)
Year	2002
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	152

Pre-Crash Driver Data

Accident Type	88
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	8	Height	127	Weight	36
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-12-186-2-2
MAIS	2=Moderate
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Abdominal skin abrasion	Belt webb/buckle
2=Moderate	Nose fracture, open/displaced/comminuted	Other occupants
2=Moderate	Alveolar ridge fracture +/- tooth injury	Other occupants
1=Minor	Leg skin laceration, minor	Transmiss lever
1=Minor	297402	Other occupants
1=Minor	Leg skin abrasion	Transmiss lever
1=Minor	Facial skin laceration NFS	Other occupants
1=Minor	Abdominal skin contusion	Belt webb/buckle

13 Case 2003-13-75

Summary:

V1 was traveling westbound on a dry, 2-lane, 2-way road. V1 passed a vehicle ahead and lost control. V1 spun 100 degrees counterclockwise into the path of V2, which was traveling eastbound on the same road. The front of V2 impacted the right side of V1. Both vehicles were towed from the scene with moderate damage. The driver of V1 was hospitalized with critical head injuries. The driver of V2 was treated and released from the ER with minor injuries.)

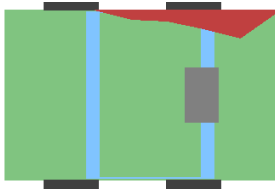
Vehicle #	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	3DR/2DR HATCHBAK	Ford	Mustang/Mustang II	1992	1	18	MALE	5=Critical
2	4-DR SEDAN/HDTOP	Pontiac	Grand AM	1992	1	20	MALE	1=Minor

Occupant: 2003-13-75-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	99

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	38 7 -37
Est. δV with sequence number	DELTA V CODED 1
CDC	63 R Z E W 3
Damage (C1-C6)	3 41 27 16 13 0
Crush (L and D)	275 -92
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	91.106
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Ford Mustang/Mustang II
Year	1992
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	129

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	99
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	18	Height	185	Weight	68
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-13-75-1-1
MAIS	5=Critical
Seat Position	Front left side

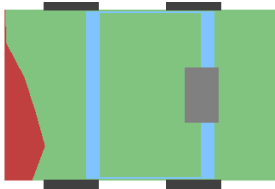
AIS Level	Injury Description	Contacts
1=Minor	297202	Right interior
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Facial skin contusion	Right interior
3=Serious	Lung contusion, unilateral	Transmiss lever
1=Minor	Scalp contusion	Right interior
5=Critical	Intracerebral hematoma, small, bilateral	Right interior

Occupant: 2003-13-75-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Pontiac Grand AM
Year	1992
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	131

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	37 -36 6
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 3
Damage (C1-C6)	41 59 46 29 3 0
Crush (L and D)	155 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	69
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	BRAKE+STEER RT
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	91.106
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DRIVER Factors

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	20	Height	170	Weight	73
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-13-75-2-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin contusion	Steering rim
1=Minor	Leg skin contusion (hematoma)	Floor
1=Minor	Leg skin abrasion	Left apnel

14 Case 2003-41-125

Summary:

V1, a 2002 Ford Focus, was traveling northbound in lane two of a dry, bitumious, level roadway. V2, a 1983 Pontiac Bonneville, was traveling southbound in lane three of a dry, bitumious divided roadway in the opposite direction - same roadway. V3, an unknown truck, was northbound in the inside lane three traveling next to V1. A curbed median separated the directions of travel. As V3 was passing V1 in its correct lane, V1 drifted to the left and V3 sideswiped V1 right-to-left. V3 fled the scene. After the intiail impact, V1 began to rotate counterclockwise and travel towards the center median. The right front and right rear wheels of V1 came in contact with the curbed median. The vehicle continued traveling across the median in a westerly direction. As V1 exited the west side of the median, the front of V2 came in contact with the right side of V1. Both drivers were transported to a trauma center with incapacitating injures. The driver of V1 was expired prior to admission. V1 and V2 were towed; V3 was not identified.)



Vehicle	Body type	Make	Model	Year	OccAge	Occupant's sex	Maximum known occupant ais
1	3DR/2DR HATCHBAK	Ford	Focus	2002	25	FEMALE-NOT PREG	6=Maximum
2	4-DR SEDAN/HDTOP	Pontiac	Bonneville/Catalina	1983	45	FEMALE-NOT PREG	3=Serious

Occupant: 2003-41-125-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, right side
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	9
Alcohol Test (< 95 indicates BAC 0.xx)	97

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	SEVERE 4
CDC	2 R D A W 6
Damage (C1-C6)	8 29 98 85 27 12
Crush (L and D)	340 8
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	CURB

NASS Weighting Factor

Weighting factor	20.087
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Ford Focus
Year	2002
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	116

Pre-Crash Driver Data

Accident Type	47
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	99
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	25	Height	168	Weight	67
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth	Not EQUIP W/ OTH
Seat	

Injuries

Occupant	2003-41-125-1-1
MAIS	6=Maximum
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Flying glass
1=Minor	297202	Head restraint
1=Minor	Scalp abrasion	Head restraint
1=Minor	Facial skin abrasion	Seat, back
1=Minor	Facial skin abrasion	Seat, back
6=Maximum	Cord laceration, complete, C3 or above, with dislocation	Other noncontact
3=Serious	Cervical odontoid (dens) fracture, no cord injury	Other noncontact
1=Minor	Abdominal skin laceration	Transmiss lever
1=Minor	Abdominal skin abrasion	Transmiss lever
1=Minor	Abdominal skin contusion	Belt webb/buckle
5=Critical	>3 rib fxs on each side, stable chest & hemo-/pneumothorax	Seat, back
2=Moderate	Pleural laceration	Seat, back
6=Maximum	Thoracic aortic laceration, and extramedastinal bleeding	Seat, back
3=Serious	Sacroilium fracture	Transmiss lever
3=Serious	Symphysis pubis separation or fracture	Transmiss lever
1=Minor	Upper extremity skin abrasion	Seat, back
1=Minor	Upper extremity skin contusion	Seat, back
1=Minor	Upper extremity skin abrasion	Air bag-DR side
1=Minor	Leg skin abrasion	Seat, back
1=Minor	Leg skin contusion (hematoma)	Transmiss lever
1=Minor	Leg skin contusion (hematoma)	Knee bolster
1=Minor	Leg skin abrasion	Knee bolster
1=Minor	Upper extremity skin laceration NFS	Left interior
2=Moderate	Pelvic fracture NFS	Transmiss lever
1=Minor	Leg skin contusion (hematoma)	Foot controls
1=Minor	Leg skin abrasion	Foot controls
1=Minor	Leg skin abrasion	Center panel

Occupant: 2003-41-125-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	SEVERE 4
CDC	11 F D E W 3
Damage (C1-C6)	42 50 59 68 79 92
Crush (L and D)	170 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	20.087
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	9
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Pontiac Bonneville/Catalina
Year	1983
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	144

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	BRAKE UNK LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	45	Height	165	Weight	63
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

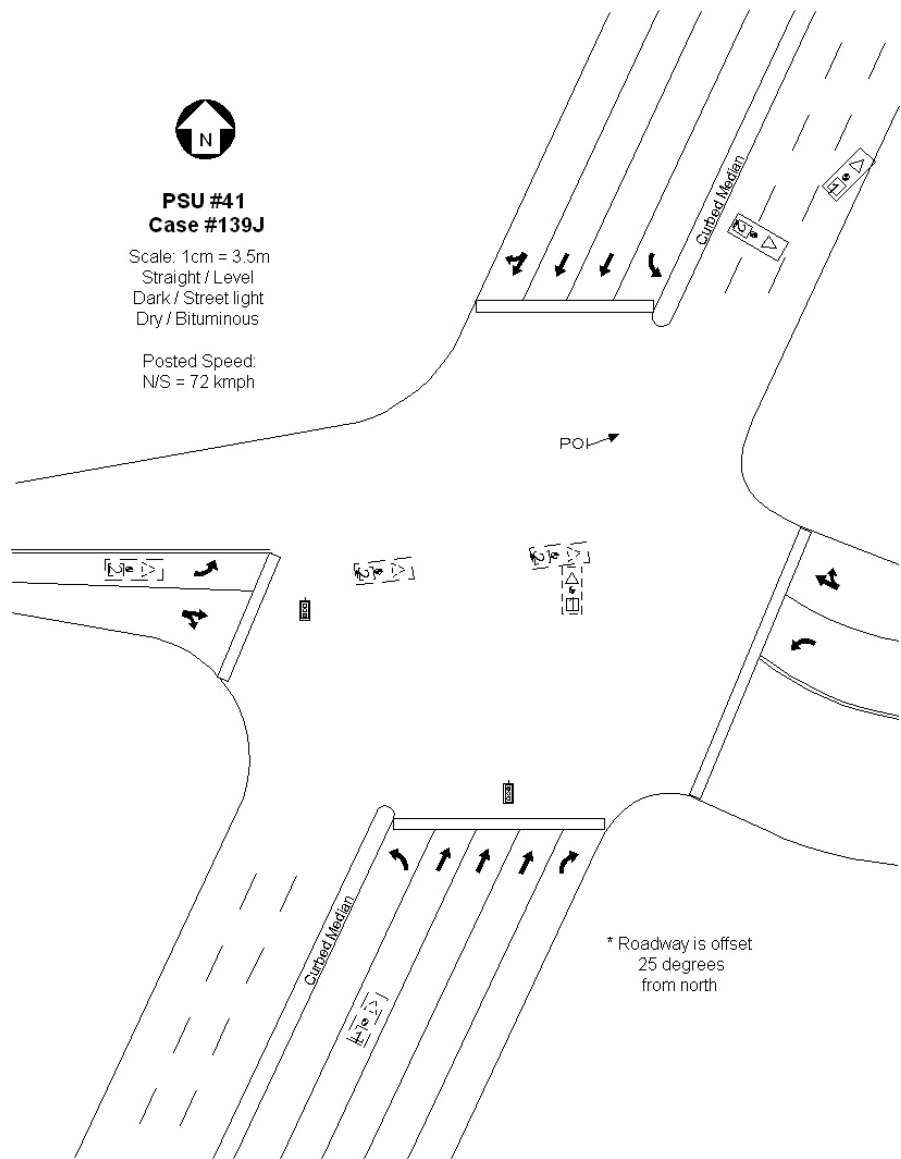
Occupant	2003-41-125-2-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Orbit fracture NFS	Steering rim
3=Serious	Thoracic cavity injury NFS, with hemo-/pneumothorax	Sterring hub
1=Minor	Multiple hand tendons laceration/rupture/tear NFS	Left apnel
1=Minor	Mandible fracture NFS	Steering rim
1=Minor	Thoracic skin contusion	Sterring hub
1=Minor	Facial skin laceration, minor	Steering rim

15 Case 2003-41-139

Summary:

V1, a passenger car with one occupant, was traveling northbound in lane three of a two-way, seven-lane, divided roadway without positive barrier. V2, a passenger car with one occupant, was traveling eastbound in lane two of a two-way, three-lane, undivided roadway. V1 was passing through the intersection, as V2 was attempting to make a left turn. The front of V1 made contact with the right side of V2. Both vehicles were towed due to damage. The driver and passenger air bags for both vehicles deployed during the crash as a result of impact forces. The driver of V1 was transported with nonincapacitating injuries. The driver of V2 was transported with incapacitating injuries. There were no adverse environmental or mechanical conditions relating to the crash.)



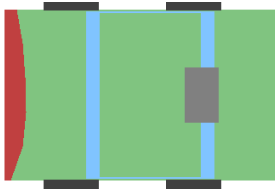
Vehicle #	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant injuries
1	2DR SEDAN/HT/CPE	Pontiac	J-2000/2000/Sunbird (84+)	2003	1	44	FEMALE-NOT PREG	7=Unk. sev.
2	4-DR SEDAN/HDTOP	Nissan	Altima	2002	1	23	FEMALE-NOT PREG	3=Serious

Occupant: 2003-41-139-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	65 -61 22
Est. δV with sequence number	DELTA V CODED 1
CDC	71 F D E W 2
Damage (C1-C6)	9 27 32 31 27 18
Crush (L and D)	136 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	17.944
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Pontiac J-2000/2000/Sunbird (84+)
Year	2003
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	118

Pre-Crash Driver Data

Accident Type	77
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	99
Pre-impact Stability	9
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	44	Height	999	Weight	999
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-41-139-1-1
MAIS	7=Unk. sev.
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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Occupant: 2003-41-139-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	57 -19 -54
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R P E W 7
Damage (C1-C6)	5 52 78 100 72 2
Crush (L and D)	250 -6
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	17.944
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Nissan Altima
Year	2002
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	136

Pre-Crash Driver Data

Accident Type	76
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Manuever	99
Pre-impact Stability	9
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	23	Height	999	Weight	999
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					9

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

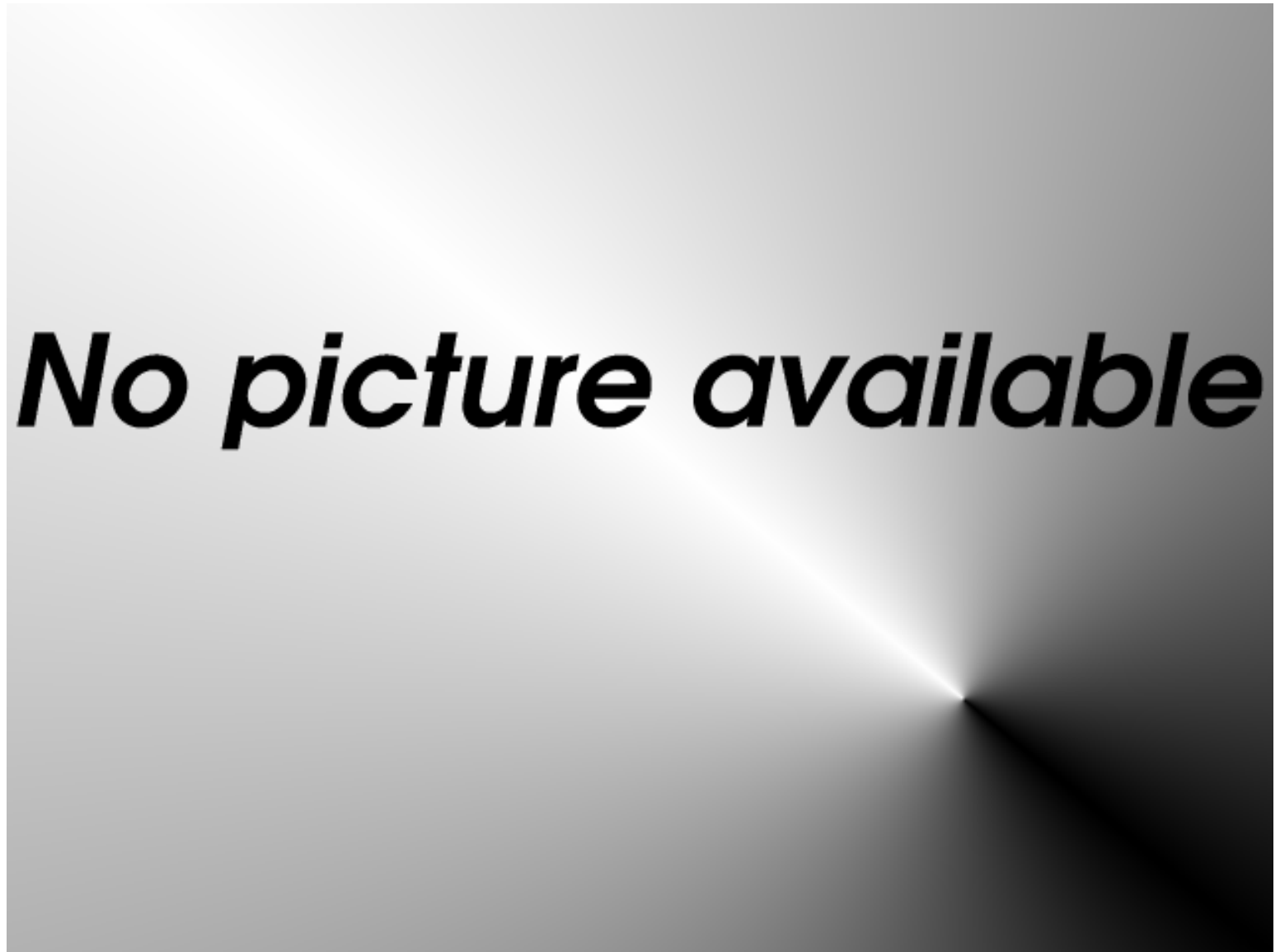
Occupant	2003-41-139-2-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	>3 rib fractures one side & <3 other side, with stable chest	Right interior
1=Minor	Leg skin contusion (hematoma)	Right interior
1=Minor	Thoracic spine strain, acute without fracture or dislocation	Right interior
1=Minor	Leg skin abrasion	Right interior
1=Minor	Leg skin abrasion	Floor
1=Minor	Leg skin laceration	Floor
	NFS	
1=Minor	Facial skin abrasion	Right interior
1=Minor	Thoracic skin contusion	Right interior
1=Minor	Abdominal skin contusion	Right interior
2=Moderate	Kidney laceration	Right interior
	NFS	
2=Moderate	Splenic injury	Left hardware
	NFS	

16 Case 2003-41-156

Summary:

V1, a passenger car with one occupant, was traveling eastbound in lane one of a two-way, two-lane, undivided roadway. V2, a compact pickup truck with one occupant, was traveling northbound in lane one of a two-way, two-lane, undivided roadway. Both vehicles were approaching the same intersection. As the two vehicles entered the intersection, the right side of V1 made contact with the front of V2. both vehicles were towed due to damage. V1 and V2's driver and passenger air bags deployed as a result of impact forces. The driver of V1 was transported and hospitalized with incapacitating injuries. The driver of V2 was transported and released. There were no adverse environmental or mechanical conditions relating to the crash.)



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Chevrolet	Malibu	1998	1	19	MALE	3=Serious
2	COMPACT PICKUP	Dodge	Dakota	2002	1	26	MALE	2=Moderate

Occupant: 2003-41-156-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	49 -25 -42
Est. δV with sequence number	DELTA V CODED 1
CDC	62 R Y A W 5
Damage (C1-C6)	0 28 73 35 16 0
Crush (L and D)	284 45
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	WALL

NASS Weighting Factor

Weighting factor	30.113
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet Malibu
Year	1998
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	141

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	19	Height	170	Weight	64
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-41-156-1-1
MAIS	3=Serious
Seat Position	Front left side

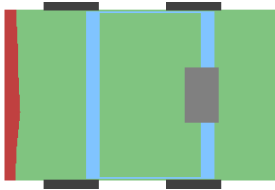
AIS Level	Injury Description	Contacts
2=Moderate	Mesenteric laceration, minor	Transmiss lever
2=Moderate	Pancreatic contusion NFS	Transmiss lever
1=Minor	Facial skin laceration NFS	Center panel
1=Minor	Scalp contusion	Center panel
3=Serious	Cerebral contusion, NFS	Center panel
3=Serious	Unconscious on admission, length NFS	Center panel

Occupant: 2003-41-156-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	16 -14 8
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F D E W 1
Damage (C1-C6)	16 18 23 21 19 17
Crush (L and D)	160 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	30.113
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Dodge Dakota
Year	2002
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	425

Pre-Crash Driver Data

Accident Type	86
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	26	Height	183	Weight	127
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-41-156-2-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Acute cervical spine strain without fracture or dislocation	Roof left rail
2=Moderate	Knee sprain	Knee bolster
1=Minor	Scalp contusion	Roof left rail
1=Minor	Leg skin contusion (hematoma)	Knee bolster

17 Case 2003-42-50

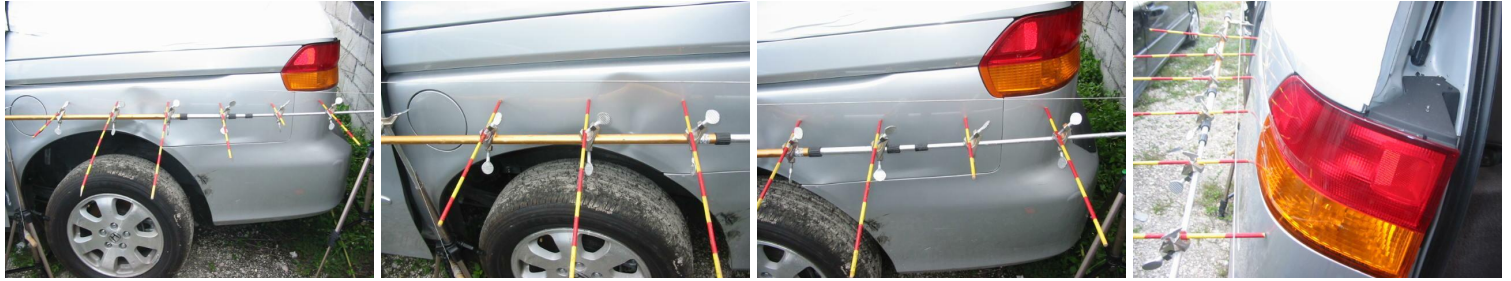
Summary:

V1 and V2 were traveling in the northbound lanes of a seven lane/two-way highway. V1 was traveling in the third lane and V2 was traveling in the fourth lane. V3 was traveling in the southbound lanes in the fourth lane. V1 changed lanes from the third to the fourth lane in front of V2 and its left side collided with V2's right. After the impact with V2, V1 crossed over into the southbound lanes where its right side front was struck by the front of V3. The right side of V1 the side slapped the left side of V3. There were four occupants in V1, two in V2 and only the driver in V3. V1's driver and the rear left child occupant sustained "B" type injuries. The rear right and third row left occupants in V1 sustained "C" type injuries. The driver of V3 sustained "B" type injuries. The driver's of V1 and V3 and the three occupants of V1 were transported to a local hospital for treatment. The driver of V2 was not injured in the crash. V1 and V3 were towed due to damage. V2 was driven from the scene. V3 - The weight of the cargo reinforcing the seatback contributed to the forward motion of the driver resulting in loading through the airbag. The driver's stature was also a contributing factor for loading through the airbag.)



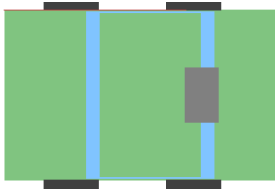
Vehicle #	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	MINIVAN	Honda	Odyssey	2003	1	40	FEMALE-NOT PREG	3=Serious
1	MINIVAN	Honda	Odyssey	2003	2	5	MALE	1=Minor
1	MINIVAN	Honda	Odyssey	2003	3	4	MALE	7=Unk. sev.
1	MINIVAN	Honda	Odyssey	2003	4	9	MALE	9
3	COMPACT UTILITY	Jeep	Cherokee84-	2000	1	54	MALE	3=Serious

Occupant: 2003-42-50-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	32 -16 -28
Est. δV with sequence number	DELTA V CODED 2
CDC	2 R Y E W 4
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 3
Object Contacted 2	VEHICLE NO. 3

NASS Weighting Factor

Weighting factor	18.025
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Honda Odyssey
Year	2003
Class	TRUCK
Body Type	MINIVAN
Weight	198

Pre-Crash Driver Data

Accident Type	47
Pre-event Movement	CHANGING LANES
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	99
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	40	Height	999	Weight	999
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

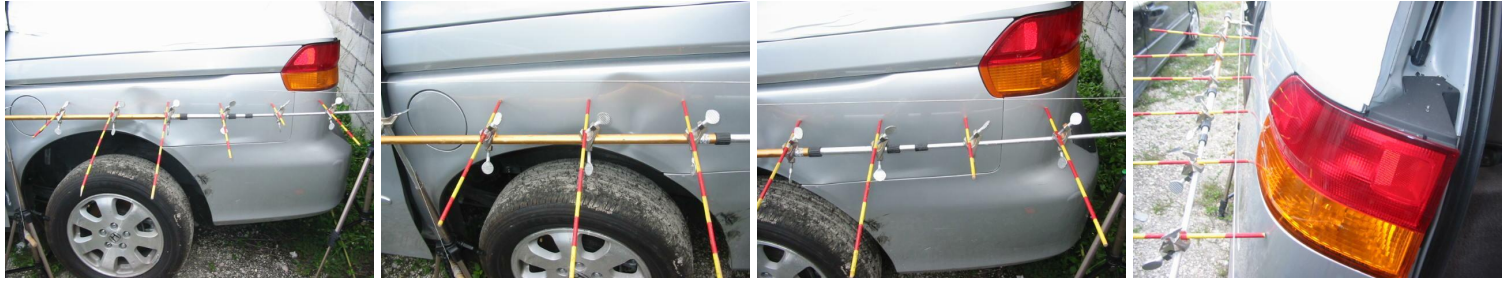
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	ONLY DR BAG DEPL
Airbag Deployment - Oth Seat	BAG DEPLOYED

Injuries

Occupant	2003-42-50-1-1
MAIS	3=Serious
Seat Position	Front left side

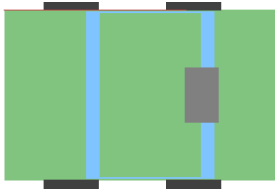
AIS Level	Injury	Description	Contacts
2=Moderate	Hepatic	laceration, minor deep, EBL<202=Moderate	Clavicle fracture
Belt webb/buckle			
1=Minor	Abdominal	skin abrasion	Belt webb/buckle
1=Minor	Upper extremity	skin contusion	Belt webb/buckle
1=Minor	Leg	skin contusion (hematoma)	Oth interior obj
1=Minor	Thoracic	skin contusion	Belt webb/buckle
1=Minor	Abdominal	skin contusion	Oth interior obj
3=Serious	Lung	contusion, unilateral	575
3=Serious	Cervical	odontoid (dens) fracture, no cord injury	Other noncontact

Occupant: 2003-42-50-1-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	32 -16 -28
Est. δV with sequence number	DELTA V CODED 2
CDC	2 R Y E W 4
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 3
Object Contacted 2	VEHICLE NO. 3

NASS Weighting Factor

Weighting factor	18.025
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Honda Odyssey
Year	2003
Class	TRUCK
Body Type	MINIVAN
Weight	198

Pre-Crash Driver Data

Accident Type	47
Pre-event Movement	CHANGING LANES
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	99
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	5	Height	999	Weight	26
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

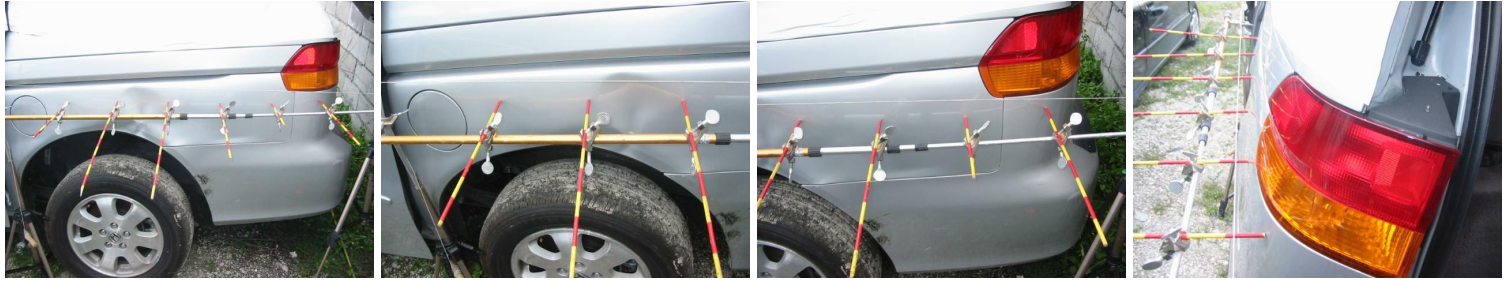
Restrain	Lap+sh w/ch seat
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	ONLY DR BAG DEPL
Airbag Deployment - Oth Seat	BAG DEPLOYED

Injuries

Occupant	2003-42-50-1-2
MAIS	1=Minor
Seat Position	Second left

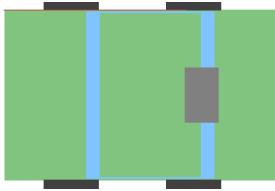
AIS Level	Injury Description	Contacts
1=Minor	Neck skin contusion (hematoma)	Belt webb/buckle
1=Minor	Neck skin abrasion	Belt webb/buckle
1=Minor	Abdominal skin abrasion	Belt webb/buckle
1=Minor	Abdominal skin contusion	Belt webb/buckle
1=Minor	Leg skin abrasion	Belt webb/buckle
1=Minor	Upper extremity skin abrasion	Belt webb/buckle

Occupant: 2003-42-50-1-3



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	32 -16 -28
Est. δV with sequence number	DELTA V CODED 2
CDC	2 R Y E W 4
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 3
Object Contacted 2	VEHICLE NO. 3

NASS Weighting Factor

Weighting factor	18.025
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Honda Odyssey
Year	2003
Class	TRUCK
Body Type	MINIVAN
Weight	198

Pre-Crash Driver Data

Accident Type	47
Pre-event Movement	CHANGING LANES
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	99
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	4	Height	999	Weight	999
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

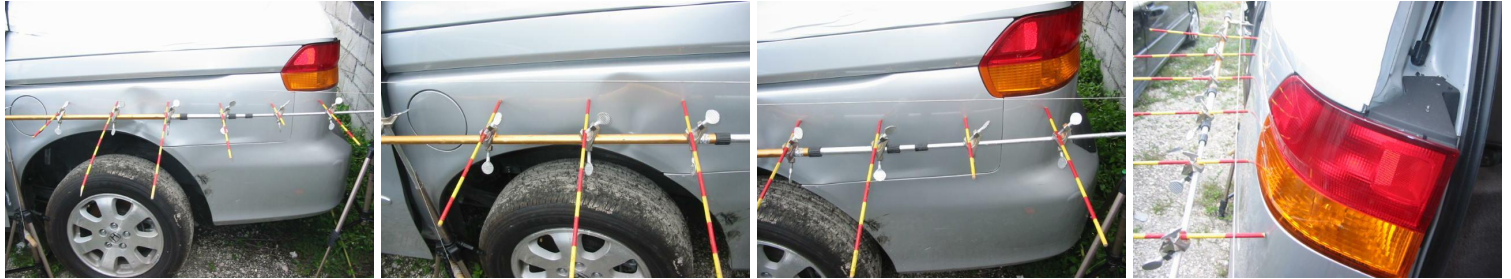
Restrain	Lap+sh w/ch seat
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	ONLY DR BAG DEPL
Airbag Deployment - Oth Seat	BAG DEPLOYED

Injuries

Occupant	2003-42-50-1-3
MAIS	7=Unk. sev.
Seat Position	Second right

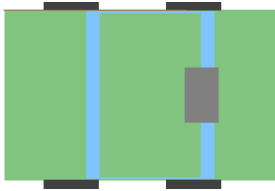
AIS Level	Injury Description	Contacts
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Occupant: 2003-42-50-1-4



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	32 -16 -28
Est. δV with sequence number	DELTA V CODED 2
CDC	2 R Y E W 4
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 3
Object Contacted 2	VEHICLE NO. 3

NASS Weighting Factor

Weighting factor	18.025
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Honda Odyssey
Year	2003
Class	TRUCK
Body Type	MINIVAN
Weight	198

Pre-Crash Driver Data

Accident Type	47
Pre-event Movement	CHANGING LANES
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	99
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	9	Height	999	Weight	999
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	ONLY DR BAG DEPL
Airbag Deployment - Oth Seat	BAG DEPLOYED

Injuries

Occupant	2003-42-50-1-4
MAIS	9
Seat Position	Third left

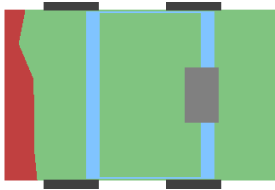
AIS Level	Injury Description	Contacts
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Occupant: 2003-42-50-3-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	36 -34 12
Est. δV with sequence number	DELTA V CODED 2
CDC	71 F D E W 2
Damage (C1-C6)	48 43 44 42 21 30
Crush (L and D)	160 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	18.025
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Jeep Cherokee84-
Year	2000
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	180

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Maneuver	99
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	54	Height	999	Weight	120
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

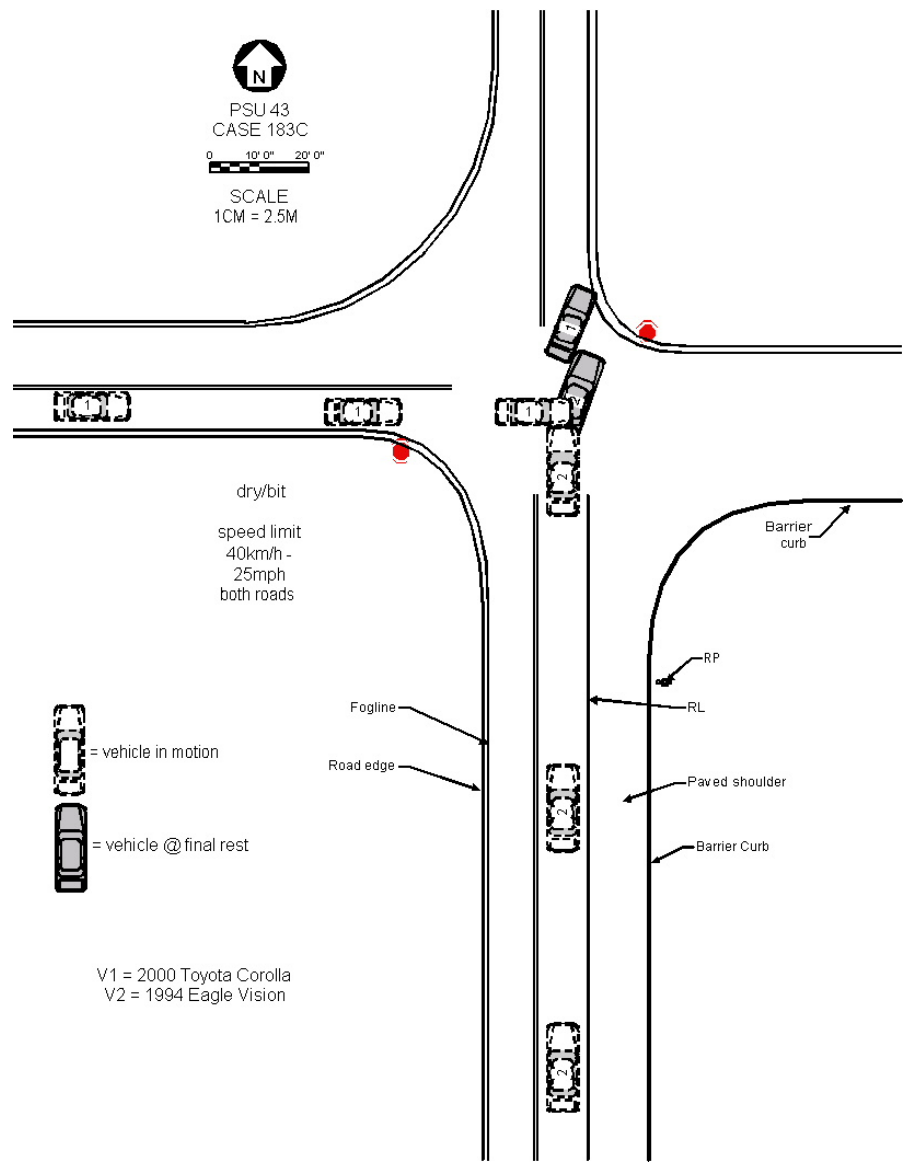
Occupant	2003-42-50-3-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Thoracic transverse process fracture without cord injury	Seat, back
3=Serious	Thoracic lamina fracture without cord injury	Seat, back
3=Serious	>3 rib fractures one side & <3 other side, with stable chest	Steering comb
2=Moderate	Scapular fracture	Int loose obj
1=Minor	Upper extremity skin laceration, minor	Int loose obj
2=Moderate	Talus fracture	Foot controls
2=Moderate	Metatarsal or tarsal fracture	Foot controls
2=Moderate	Metatarsal or tarsal fracture	Foot controls
1=Minor	Toe fracture	Foot controls
2=Moderate	Ankle joint dislocation NFS	Foot controls
1=Minor	851203	Foot controls
2=Moderate	Knee laceration into joint	Knee bolster
2=Moderate	Patellar fracture	Knee bolster

18 Case 2003-43-183

Summary:

V1, a 2000 Toyota Corolla, was traveling east towards an intersection on a dry, bituminous, two-lane roadway. V2, a 1994 Eagle Vision, was traveling north towards the same intersection on a dry, bituminous, two-lane roadway. Weather was clear and lighting condition was daylight. Both vehicles entered the intersection. The front of V2 contacted the right side of V1. Both vehicles were towed due to damage. The driver of V1 sustained "A" injuries and was transported and released from a hospital. The driver of V2 sustained "B" injuries. The RF passenger of V2 reported no injuries at the time. V1 was equipped with driver and passenger frontal airbags, none of which deployed. V2 was equipped with driver and passenger frontal airbags, which deployed due to impact forces.



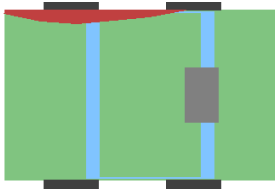
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Toyota	Corolla	2000	1	56	FEMALE-NOT PREG	3=Serious
2	4-DR SEDAN/HDTOP	Eagle	Vision	1994	1	19	FEMALE-NOT PREG	7=Unk. sev.
2	4-DR SEDAN/HDTOP	Eagle	Vision	1994	2	99	MALE	0=None

Occupant: 2003-43-183-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Toyota Corolla
Year	2000
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	110

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	17 -6 -16
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R Y E W 2
Damage (C1-C6)	0 10 15 19 16 4
Crush (L and D)	133 128
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	117.627
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DRIVER Factors

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	56	Height	160	Weight	68
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-43-183-1-1
MAIS	3=Serious
Seat Position	Front left side

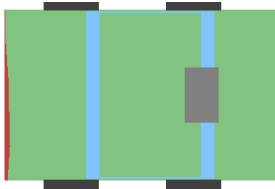
AIS Level	Injury Description	Contacts
3=Serious	Radial fracture, open/displaced/comminuted	Steering rim
1=Minor	Upper extremity skin contusion	Steering rim
1=Minor	Upper extremity skin contusion	Left interior
1=Minor	Leg skin contusion (hematoma)	Transmiss lever
1=Minor	Leg skin contusion (hematoma)	Knee bolster

Occupant: 2003-43-183-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Eagle Vision
Year	1994
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	153

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	12 -10 6
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F D E W 1
Damage (C1-C6)	4 8 7 5 2 1
Crush (L and D)	152 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	86
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Manuever	99
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	117.627
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DRIVER Factors

Age	19	Height	999	Weight	999
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-43-183-2-1
MAIS	7=Unk. sev.
Seat Position	Front left side

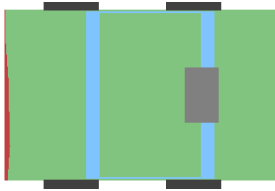
AIS Level	Injury Description	Contacts
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Occupant: 2003-43-183-2-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Eagle Vision
Year	1994
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	153

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	12 -10 6
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F D E W 1
Damage (C1-C6)	4 8 7 5 2 1
Crush (L and D)	152 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	86
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Manuever	99
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	117.627
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PASSENGER Factors

Age	99	Height	999	Weight	999
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

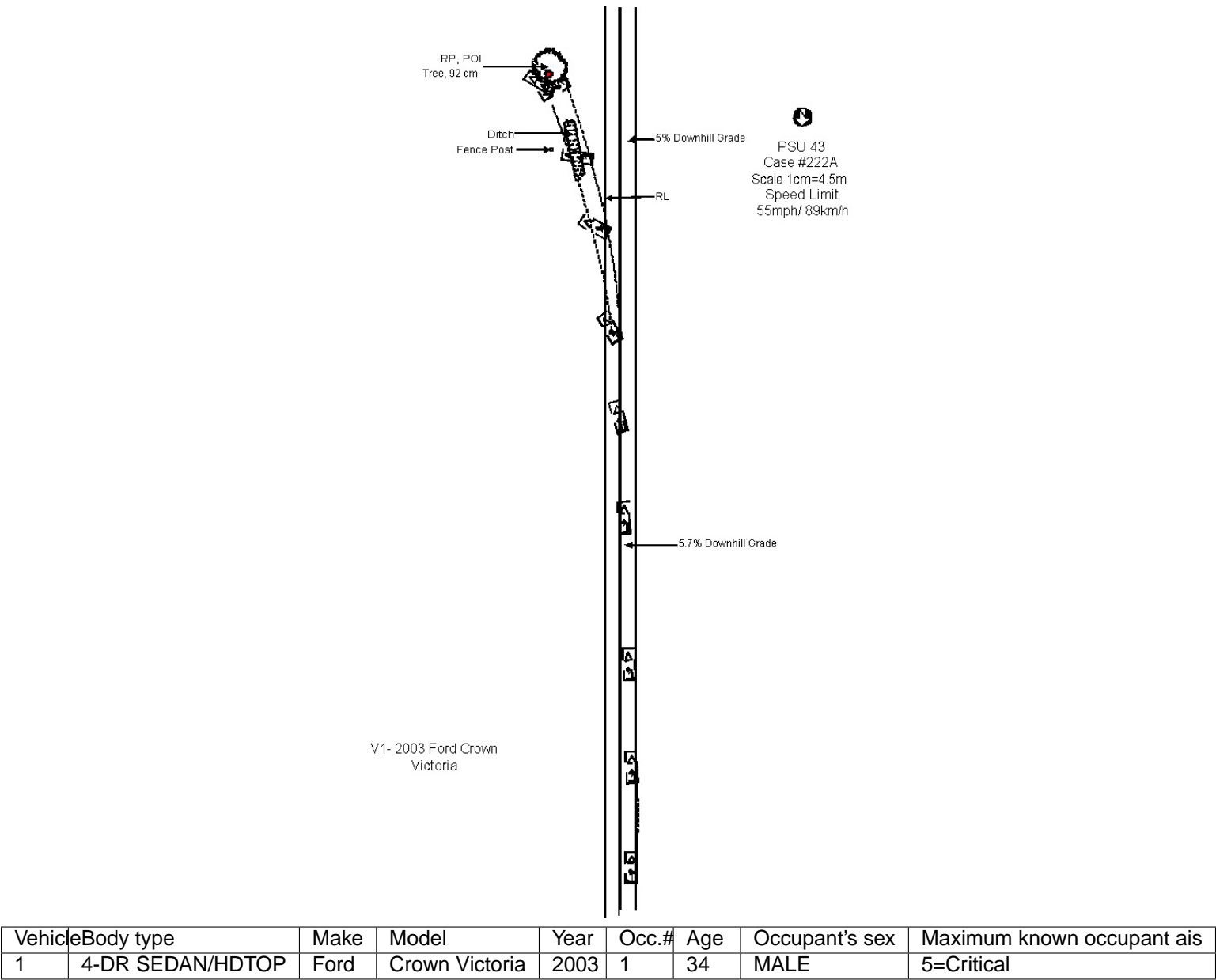
Injuries

Occupant	2003-43-183-2-2
MAIS	0=None
Seat Position	Front right side

AIS Level	Injury Description	Contacts
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19 Case 2003-43-222

Summary:
V1 (2003 Ford Crown Victoria) was traveling South in lane 1 of a 2-lane bituminous asphalt roadway. The weather was clear and it was dark. The roadway had a 5.7



Occupant: 2003-43-222-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	70 < 0.5 KMPH -70
Est. δV with sequence number	DELTA V CODED 1
CDC	3 R P A W 5
Damage (C1-C6)	2 32 87 109 63 13
Crush (L and D)	266 -31
Object Contacted 1	LARGE TREE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	41.835
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford Crown Victoria
Year	2003
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	184

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Unk CONTROL LOSS
Attempted Avoidance Manuever	99
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	34	Height	178	Weight	109
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			JAMMED DOOR/FIRE		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-43-222-1-1
MAIS	5=Critical
Seat Position	Front left side

AIS Level

Injury Description

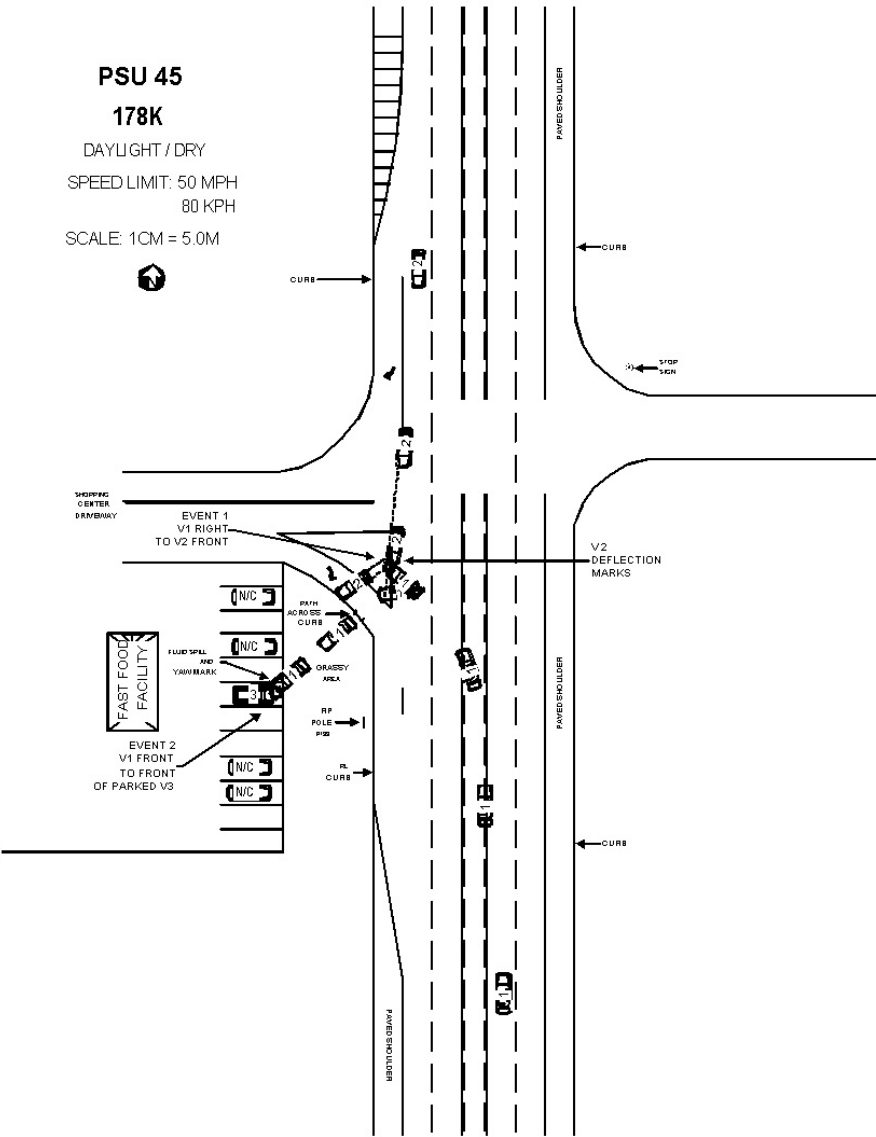
Contacts

1=Minor	Facial skin abrasion	Roof
1=Minor	Upper extremity skin contusion	Right interior
1=Minor	Leg skin abrasion	Seat, back
1=Minor	Upper extremity skin abrasion	Right interior
2=Moderate	751900	Right interior
1=Minor	Mandible fracture NFS	Roof
4=Severe	Basilar skull fracture, open, with brain tissue loss.	Roof
3=Serious	Cerebral subarachnoid hemorrhage	Roof
2=Moderate	Cervical vertebral body fracture, no cord injury NFS	Roof
2=Moderate	Clavicle fracture	Right B pillar
2=Moderate	Clavicle fracture	Right B pillar
5=Critical	>3 rib fxs on each side, stable chest & hemo-/pneumothorax	Right B pillar
2=Moderate	Pericardial laceration (puncture)	Right B pillar
5=Critical	Myocardial laceration with perforation (+/- tamponade)	Right B pillar
4=Severe	Vena cava laceration, major (complete transect or EBL>204=Severe	Hepatic laceration, major (<502=Moderate
Pelvic fracture NFS	Right B pillar	
4=Severe	Lung contusion, bilateral	Right B pillar
2=Moderate	Skull fracture, vault, NFS	Roof

20 Case 2003-45-178

Summary:

V1 a 1985 Oldsmobile Cutlass was traveling north on a five lane non-physically divided asphalt highway with a center two way left turn lane in daylight and dry conditions. V2 a 2002 Chrysler PT Cruiser was traveling south in the right lane. The driver of V1 attempted to turn left into a shopping center. As V1 was crossing the southbound lanes, the right of V1 and front of V2 contacted. V1 rotated counter-clockwise traveling southwest across the curb, and down a grassy hill before it's front contacted the front of V3, a parked 1994 Chevrolet Astro van, where V1 came to rest. V2 traveled southwest coming to rest facing southwest near the curb at the southwest corner of the intersection. The belted driver of V1 was hospitalized, while the non-belted airbag deployed V2 driver was transported and released from the hospital. The disabled V1 and V2 were towed from the crash, while parked V3 was driven from the scene.)



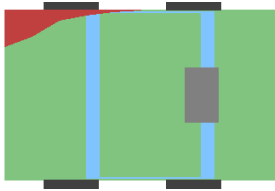
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Oldsmobile	Ciera	1985	1	53	MALE	4=Severe
2	5DR/4DR HATCHBAK	Chrysler	PT Cruiser	2002	1	19	MALE	2=Moderate

Occupant: 2003-45-178-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	95

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	20 -10 -17
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R F E E 4
Damage (C1-C6)	0 2 7 15 38 53
Crush (L and D)	119 191
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	Not IN TRAN LGTVEH

NASS Weighting Factor

Weighting factor	69.163
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Oldsmobile Ciera
Year	1985
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	125

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	TRAVEL OPP DIR
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	53	Height	183	Weight	86
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-45-178-1-1
MAIS	4=Severe
Seat Position	Front left side

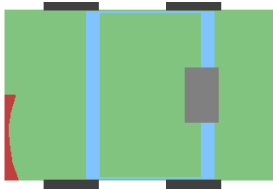
AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin contusion	Belt webb/buckle
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Abdominal skin contusion	Belt webb/buckle
4=Severe	Colonic laceration massive (tissue loss, gross contamination	Belt webb/buckle
2=Moderate	Colonic contusion (hematoma)	Belt webb/buckle

Occupant: 2003-45-178-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Chrysler PT Cruiser
Year	2002
Class	TRUCK
Body Type	5DR/4DR HATCHBAK
Weight	141

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	18 -16 9
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F L E E 5
Damage (C1-C6)	20 12 8 5 9 17
Crush (L and D)	150 -58
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	69
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	BRAKE+STEER RT
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	Left TRAVEL LANE

NASS Weighting Factor

Weighting factor	69.163
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DRIVER Factors

Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	19	Height	178	Weight	75
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-45-178-2-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Acute cervical spine strain without fracture or dislocation	Other noncontact
1=Minor	Lumbar spine acute strain without fracture or dislocation	Seat, back
1=Minor	Leg skin abrasion	Knee bolster
2=Moderate	C-spine dislocation no bone or cord involvement NFS	Other noncontact
1=Minor	Upper extremity skin abrasion	Air bag-DR side

Summary:

PSU 45
CASE 203K
DARK/LIT/RAIN
SPEED LIMIT 45MPH
SCALE 1CM=2.5M

DRIVEWAY

EVENT 1
V1 TO V2

EVENT 2-SIDESLAP
V1-V2

EVENT 3
V3-V1

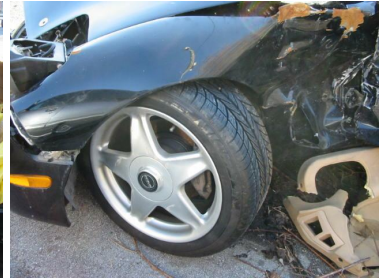
GRASS
SIDEWALK

RL

RP

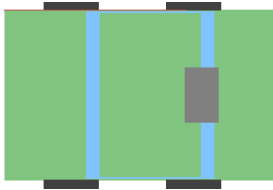
Vehicle #	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant AIS
1	3DR/2DR HATCHBACK	Mazda	RX7	1993	1	47	MALE	4=Severe
1	3DR/2DR HATCHBACK	Mazda	RX7	1993	2	50	FEMALE-NOT PREG	3=Serious
2	4-DR SEDAN/HDTOP	Toyota	Corolla	1999	1	40	MALE	3=Serious
3	COMPACT UTILITY	Ford	Bronco II	2001	1	21	MALE	1=Minor
3	COMPACT UTILITY	Ford	Bronco II	2001	2	21	FEMALE-NOT PREG	1=Minor

Occupant: 2003-45-203-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	34 -17 -29
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R Y E W 4
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 3

NASS Weighting Factor

Weighting factor	50.218
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	9
Alcohol Test (< 95 indicates BAC 0.xx)	97

Vehicle Factors

Make-Model	Mazda RX7
Year	1993
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	127

Pre-Crash Driver Data

Accident Type	64
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	99
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	47	Height	999	Weight	999
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			ENTRAPPED		

Restraint Factors

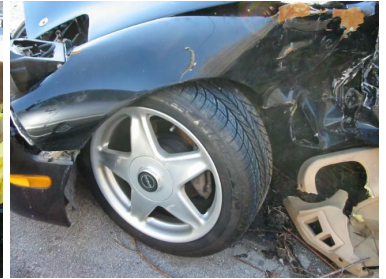
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-45-203-1-1
MAIS	4=Severe
Seat Position	Front left side

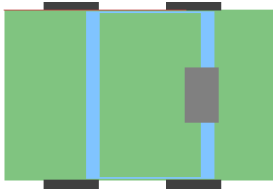
AIS Level	Injury Description	Contacts
3=Serious	Humeral fracture, open/displaced/comminuted	Left interior
4=Severe	Bladder laceration with perforation (full thickness)	Left interior
3=Serious	Sacroiliac fracture	Seat, back
3=Serious	Pelvic fracture, open/displaced/comminuted	Left interior
2=Moderate	Pelvic fracture, closed	Left interior
2=Moderate	2-3 rib fractures with stable chest	Left interior
4=Severe	Cerebral subdural hematoma, small (<50ccs)	Left interior
3=Serious	Cerebral subarachnoid hemorrhage	Left interior

Occupant: 2003-45-203-1-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	34 -17 -29
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R Y E W 4
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 3

NASS Weighting Factor

Weighting factor	50.218
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	9
Alcohol Test (< 95 indicates BAC 0.xx)	97

Vehicle Factors

Make-Model	Mazda RX7
Year	1993
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	127

Pre-Crash Driver Data

Accident Type	64
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	99
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	50	Height	999	Weight	999
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					ENTRAPPED

Restraint Factors

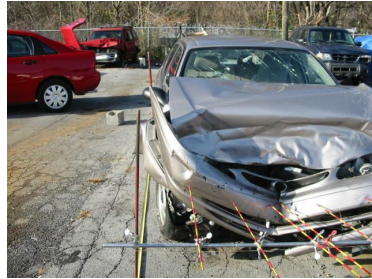
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-45-203-1-2
MAIS	3=Serious
Seat Position	Front right side

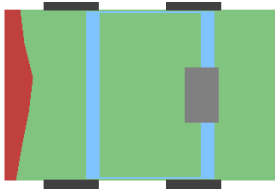
AIS Level	Injury Description	Contacts
2=Moderate	Scalp laceration, major (>10 cms and into sub-Q)	Right A pillar
1=Minor	Toe fracture	Floor
1=Minor	Leg skin abrasion	Floor
1=Minor	Leg skin abrasion	Glove door
1=Minor	Leg skin contusion (hematoma)	Floor
3=Serious	Cervical odontoid (dens) fracture, no cord injury	Right A pillar
2=Moderate	Cervical vertebral body fracture, no cord injury, <202=Moderate	Cervical transverse process fracture, no cord injury
Right panel		
1=Minor	Single rib fracture	Right interior
2=Moderate	Pelvic fracture, closed	Right interior
2=Moderate	Pelvic fracture, closed	Right interior
2=Moderate	Tibial fracture of the medial malleolus	Floor
1=Minor	Awake on admission, NFS	Right A pillar
2=Moderate	Scalp laceration, major (>10 cms and into sub-Q)	Right panel

Occupant: 2003-45-203-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	9
Alcohol Test (< 95 indicates BAC 0.xx)	97

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	40 -39 7
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 3
Damage (C1-C6)	17 25 35 42 29 23
Crush (L and D)	140 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	50.218
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Toyota Corolla
Year	1999
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	115

Pre-Crash Driver Data

Accident Type	65
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	40	Height	178	Weight	64
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

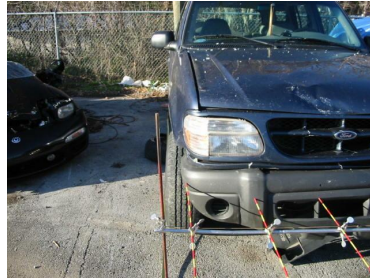
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-45-203-2-1
MAIS	3=Serious
Seat Position	Front left side

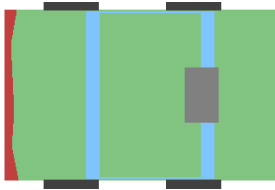
AIS Level	Injury Description	Contacts
1=Minor	Leg skin contusion (hematoma)	Steering column
1=Minor	Leg skin abrasion	Steering column
3=Serious	Lung contusion, unilateral	Belt webb/buckle
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Leg skin abrasion	Knee bolster

Occupant: 2003-45-203-3-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	9
Alcohol Test (< 95 indicates BAC 0.xx)	97

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	17 -17 -3
Est. δV with sequence number	DELTA V CODED 3
CDC	12 F D E W 1
Damage (C1-C6)	20 10 14 12 9 18
Crush (L and D)	156 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	50.218
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Ford Bronco II
Year	2001
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	187

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	21	Height	185	Weight	79
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

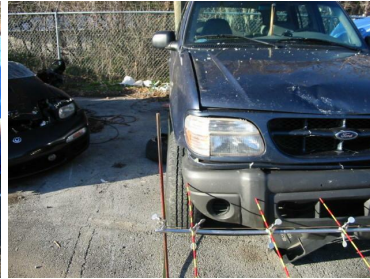
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-45-203-3-1
MAIS	1=Minor
Seat Position	Front left side

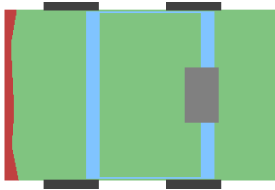
AIS Level	Injury Description	Contacts
1=Minor	Thoracic skin contusion	Belt webb/buckle

Occupant: 2003-45-203-3-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	17 -17 -3
Est. δV with sequence number	DELTA V CODED 3
CDC	12 F D E W 1
Damage (C1-C6)	20 10 14 12 9 18
Crush (L and D)	156 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	50.218
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	9
Alcohol Test (< 95 indicates BAC 0.xx)	97

Vehicle Factors

Make-Model	Ford Bronco II
Year	2001
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	187

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	21	Height	170	Weight	84
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

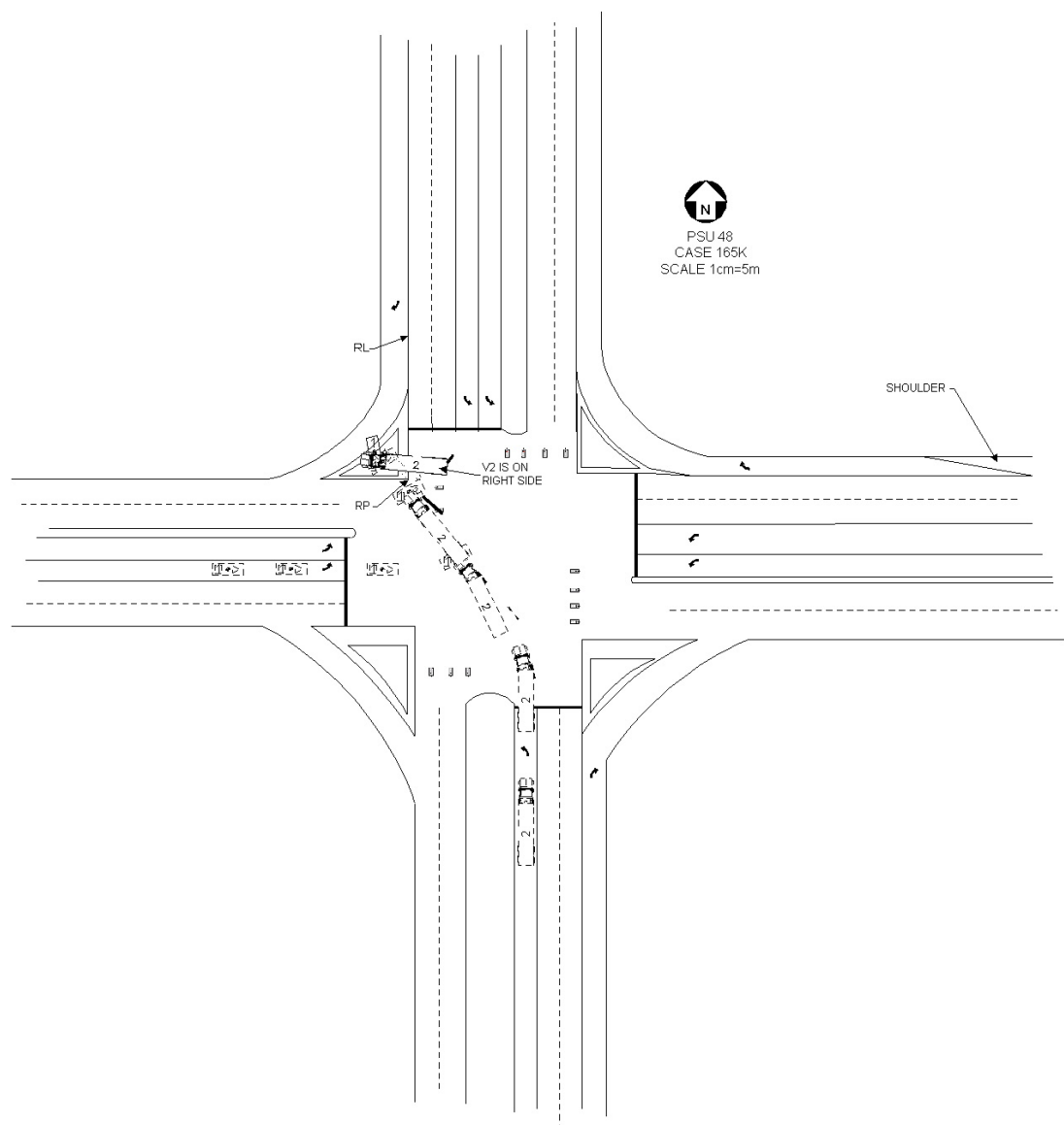
Occupant	2003-45-203-3-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Abdominal skin contusion	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Glove door

22 Case 2003-48-165

Summary:

Vehicle one, a 1996 Buick Regal was traveling east on a five-lane, median divided, asphalt roadway, in lane two of the left turn lanes. Vehicle one was turning left at an intersection controlled by a traffic light. Vehicle two, a 1995 Freightliner semi-truck with a single trailer traveling north on a four-lane, median divided, asphalt roadway turning left at the same intersection. As the vehicles turned, the front of Vehicle two struck the right side of Vehicle one. Vehicle one was pushed to the northwest by Vehicle two until the left side tires contacted a curb, then the left plane of the Vehicle one struck a light pole. Vehicle one then rotated clockwise and came to final rest headed south, with Vehicle two on top of it. Vehicle two rolled onto its right side when Vehicle one struck the light pole. Vehicle two came to final rest with its right plane in contact with Vehicle one. The trailer of Vehicle two was also on its right plane blocking the southbound lanes. The un-restrained driver of Vehicle one was hospitalized with rib and neck fractures as well as brain injuries. Both front air bags deployed in Vehicle one. The restrained driver of Vehicle two was transported to a local trauma center for treatment also. Both vehicles were towed due to disabling damage.)



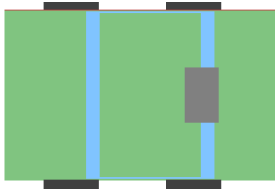
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Buick	Regal FWD	1996	1	46	MALE	4=Severe

Occupant: 2003-48-165-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	SEVERE 1
CDC	3 R D A W 5
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	241.801
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Rollover Characteristics

Number of Events	6
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	9
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Buick Regal FWD
Year	1996
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	151

Pre-Crash Driver Data

Accident Type	74
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	XING ST-OPP DIR
Attempted Avoidance Manuever	99
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	46	Height	183	Weight	104
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

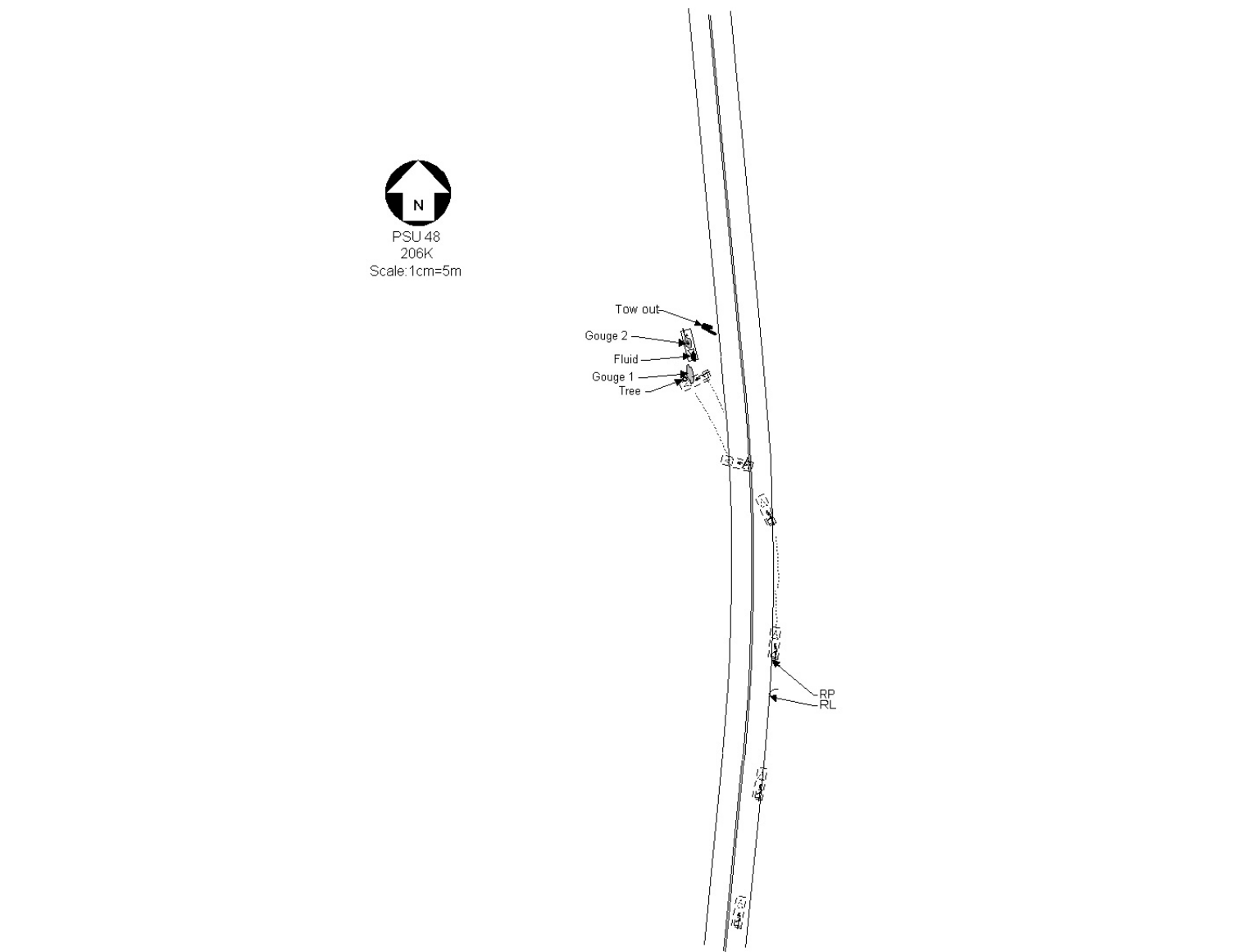
Occupant	2003-48-165-1-1
MAIS	4=Severe
Seat Position	Front left side

AIS Level	Injury Description	Contacts
4=Severe	Cerebral intraventricular hemorrhage	Right interior
4=Severe	Cerebral intraventricular hemorrhage	Right interior
3=Serious	Cerebral subarachnoid hemorrhage	Right interior
3=Serious	Cerebral subarachnoid hemorrhage	Right interior
4=Severe	>3 rib fxs on one side & <3 other side & hemo-/pneumothorax	Right interior
2=Moderate	Cervical transverse process fracture, no cord injury	Right interior
2=Moderate	Cervical transverse process fracture, no cord injury	Right interior
2=Moderate	Clavicle fracture	Right interior
1=Minor	Upper extremity skin laceration, minor	Right interior
2=Moderate	Lethargic on admission, never unconscious	Right interior

23 Case 2003-48-206

Summary:

Vehicle one, a 1984 Buick Century, was northbound on two-lane, dry, asphalt, level roadway negotiating a left hand curve. Vehicle one right side wheels departed the east road edge. The driver over-corrected to the left and the vehicle rotated counter-clockwise as it returned to the road. Vehicle one then departed the west road edge leading with the right side. Vehicle one right side struck a tree. The vehicle rotated around the tree counter-clockwise, rolled backward and came to final rest facing south. Vehicle one was towed due to disabling damage. The restrained driver was hospitalized with pelvic fractures.)



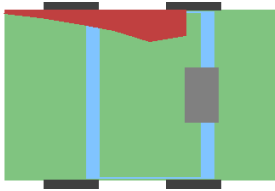
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Buick	Century	1984	1	74	FEMALE-NOT PREG	3=Serious

Occupant: 2003-48-206-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Buick Century
Year	1984
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	128

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	23 -8 -22
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R Y E N 3
Damage (C1-C6)	37 46 30 19 11 4
Crush (L and D)	91 107
Object Contacted 1	LARGE TREE
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OVER LINE-RIGHT
Attempted Avoidance Manuever	BRAKE+STEER LEFT
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

NASS Weighting Factor

Weighting factor	482.514
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DRIVER Factors

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	74	Height	165	Weight	48
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

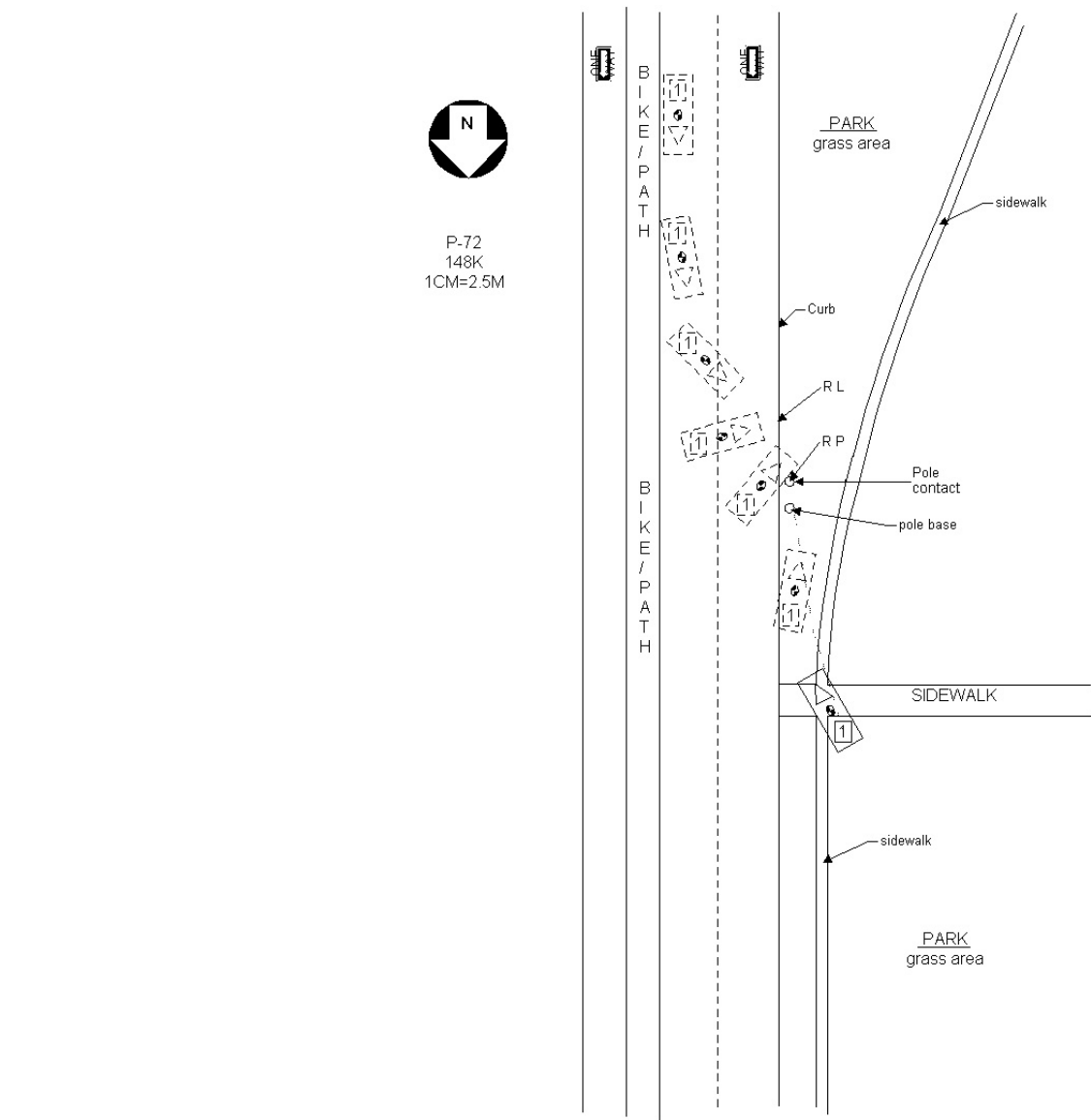
Occupant	2003-48-206-1-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Symphysis pubis separation or fracture	Belt webb/buckle
2=Moderate	Pelvic fracture, closed	Belt webb/buckle
2=Moderate	Pelvic fracture, closed	Belt webb/buckle
2=Moderate	Diaphragm contusion	Belt webb/buckle
2=Moderate	Esophageal contusion or hematoma	Belt webb/buckle
3=Serious	Thoracic cavity injury NFS, with hemo-/pneumothorax	Belt webb/buckle
1=Minor	Toe fracture	Floor
1=Minor	Acute cervical spine strain without fracture or dislocation	Belt webb/buckle
1=Minor	Neck skin contusion (hematoma)	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Floor
2=Moderate	Awake on admission, unconscious <1 hour	Left B pillar
1=Minor	Skin abrasion (body region unknown)	Unknown SOURCE
1=Minor	Skin contusion (body region unknown)	Unknown SOURCE

24 Case 2003-72-148

Summary:

Vehicle one was traveling northbound in the second lane of a two-lane, one-way, undivided roadway. Vehicle one traveled off the left side of the roadway. Vehicle one right struck the curb and then a utility pole. Vehicle one came to rest off the roadway. Vehicle one was towed due to damage. The restrained driver was hospitalized with both bone lower leg fractures. Unrestrained passenger 4 was treated and released with minor leg abrasion and contusion. Unrestrained passenger 2 was transported with unspecified injury. Unrestrained passenger 3 was hospitalized with a brain hemorrhage.)



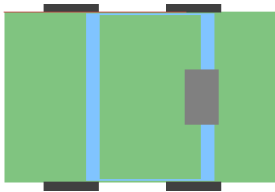
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Buick	Regal	1981	1	21	MALE	3=Serious
1	2DR SEDAN/HT/CPE	Buick	Regal	1981	2	23	MALE	7=Unk. sev.
1	2DR SEDAN/HT/CPE	Buick	Regal	1981	3	22	MALE	3=Serious
1	2DR SEDAN/HT/CPE	Buick	Regal	1981	4	20	MALE	1=Minor

Occupant: 2003-72-148-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	9
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	SEVERE 2
CDC	99 R Y E N 99
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	MEDIUM POLE
Object Contacted 2	CURB

NASS Weighting Factor

Weighting factor	13.900
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Buick Regal
Year	1981
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	149

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Unk CONTROL LOSS
Attempted Avoidance Manuever	99
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	21	Height	173	Weight	85
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-72-148-1-1
MAIS	3=Serious
Seat Position	Front left side

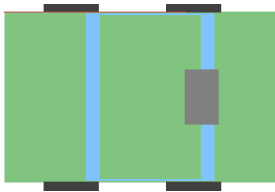
AIS Level	Injury Description	Contacts
3=Serious	Tibial shaft fracture, open/displaced/comminuted	Left apnel
2=Moderate	Fibular head, neck, or shaft fracture	Left apnel
2=Moderate	Awake on admission, unconscious <1 hour	Steering comb

Occupant: 2003-72-148-1-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	SEVERE 2
CDC	99 R Y E N 99
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	MEDIUM POLE
Object Contacted 2	CURB

NASS Weighting Factor

Weighting factor	13.900
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	9
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Buick Regal
Year	1981
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	149

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Unk CONTROL LOSS
Attempted Avoidance Manuever	99
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	23	Height	999	Weight	999
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					9
Entrapment					Not ENTRAPPED

Restraint Factors

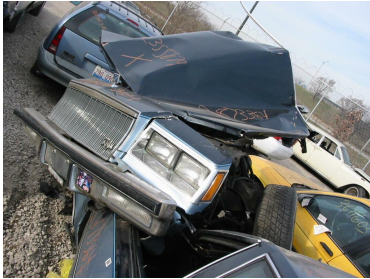
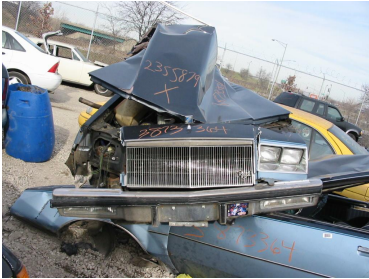
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-72-148-1-2
MAIS	7=Unk. sev.
Seat Position	Front right side

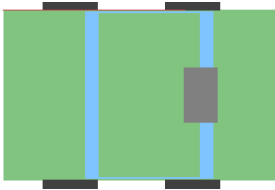
AIS Level	Injury Description	Contacts
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Occupant: 2003-72-148-1-3



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	SEVERE 2
CDC	99 R Y E N 99
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	MEDIUM POLE
Object Contacted 2	CURB

NASS Weighting Factor

Weighting factor	13.900
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	9
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Buick Regal
Year	1981
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	149

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Unk CONTROL LOSS
Attempted Avoidance Manuever	99
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	22	Height	999	Weight	999
Gender			MALE		
Ejection			9		
Ejection Area			9		
Entrapment			9		

Restraint Factors

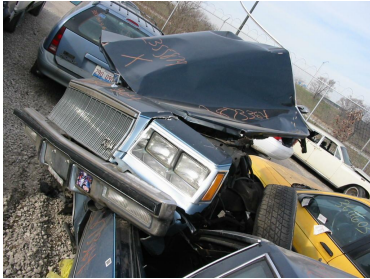
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-72-148-1-3
MAIS	3=Serious
Seat Position	Second left

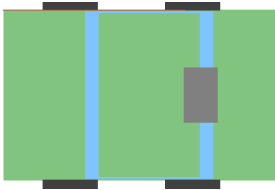
AIS Level	Injury Description	Contacts
3=Serious	Cerebral subarach-noid hemorrhage	Unknown SOURCE
2=Moderate	Awake on admission, unconscious <1 hour	Unknown SOURCE
3=Serious	Cerebral contusion, single, small (<30ccs)	Unknown SOURCE
1=Minor	Upper extremity skin abrasion	Unknown SOURCE

Occupant: 2003-72-148-1-4



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	SEVERE 2
CDC	99 R Y E N 99
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	MEDIUM POLE
Object Contacted 2	CURB

NASS Weighting Factor

Weighting factor	13.900
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	9
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Buick Regal
Year	1981
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	149

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Unk CONTROL LOSS
Attempted Avoidance Manuever	99
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	20	Height	999	Weight	999
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					9
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

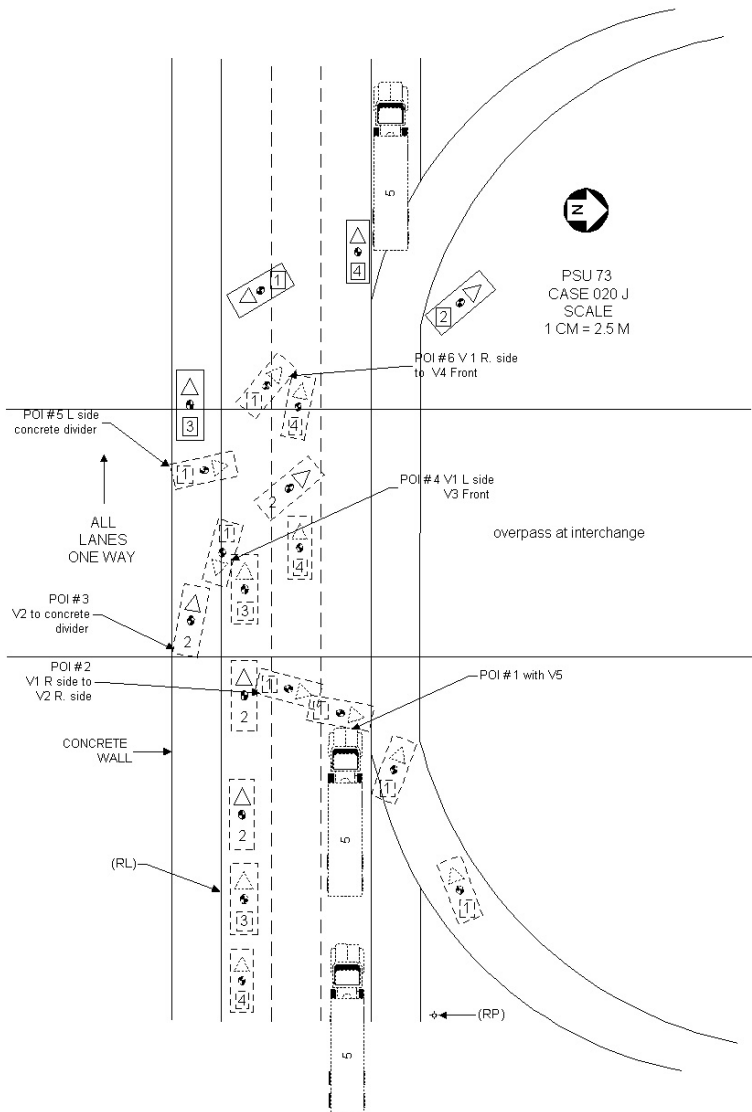
Occupant	2003-72-148-1-4
MAIS	1=Minor
Seat Position	Second right

AIS Level	Injury Description	Contacts
1=Minor	Leg skin abrasion	Ground
1=Minor	Leg skin contusion (hematoma)	Ground

25 Case 2003-73-20

Summary:

Vehicle 1, a 2000 Ford Mustang, was westbound on an interstate highway entrance ramp, attempting to merge into lane 1 of the three-lane divided interstate highway. Vehicle 2, a 1995 Mercury Cougar, was westbound in lane 3 approaching the interchange area. Vehicle 3, a 1999 Ford F-250 pickup truck, was westbound in lane 3 behind V2. Vehicle 4, a 1997 Saturn SC1, was westbound in lane 3 behind V3. Vehicle 5, a 2001 Kenworth tractor-trailer, was westbound in lane 1 approaching the interchange area. As V1 merged onto the highway it began a clockwise rotation causing it to be positioned across lane 1 directly in front of V5. The front of V5 impacted the right side of V1. V5 then came to a controlled stop on the outer berm of the roadway. V1 continued moving south across lane 2 and into lane 3. The right rear corner of V1 impacted the right side of V2. The right back corner snagged the RR wheel of V2 and caused V2 to rotate clockwise and depart the road and impact the center median wall with the left rear bumper corner. V2 then lost control and crossed all the westbound lanes and came to rest on the outer berm of the roadway. V3 steered left to avoid V1 but the front of V3 impacted the left side of V1 causing V1 to impact the center concrete dividing wall. V3 then came to a controlled stop on the inner berm of the roadway. V1 came off the center wall, crossed lane 3 and entered lane 2. V4, having already entered lane 2 in an attempt to avoid the collision, steered right in a further attempt to avoid V1 but the front of V4 struck the right front of V1. V4 then came to rest in lane 2. V1 came to final rest in lane 2. All vehicles were occupied by the driver only. The driver of V1 was hospitalized with multiple brain and chest injuries. The other drivers were not reported injured. V1, V2, V4 were reported towed from the scene due to damage. V3 and V5 were driven from the scene. The roadway was reported dry at the time of the crash.)



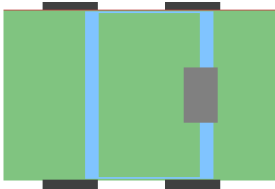
Vehicle	Body type	Make	Model	Year	Occ Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Ford	Mustang/Mustang II	2000	34	FEMALE-NOT PREG	5=Critical
2	2DR SEDAN/HT/CPE	Mercury	Cougar XR7	1995	49	MALE	0=None
4	2DR SEDAN/HT/CPE	Saturn	SC	1997	99 9		0=None

Occupant: 2003-73-20-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	ONE
Roadway Alignment	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	SEVERE 1
CDC	2 R D A W 4
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 5
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	26.229
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Rollover Characteristics

Number of Events	6
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Ford Mustang/Mustang II
Year	2000
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	139

Pre-Crash Driver Data

Accident Type	47
Pre-event Movement	MERGING
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	99
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	34	Height	173	Weight	77
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-73-20-1-1
MAIS	5=Critical
Seat Position	Front left side

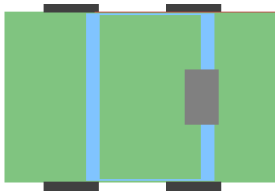
AIS Level	Injury Description	Contacts
3=Serious	2-3 rib fractures with stable chest and hemo-/pneumothorax	Right hardware
2=Moderate	Sternal fracture	Right hardware
2=Moderate	Clavicle fracture	Belt webb/buckle
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Belt webb/buckle
5=Critical	Brainstem contusion	Right interior
3=Serious	Cerebellar contusion, small or superficial (<15 ccs)	Right interior
3=Serious	Cerebral contusion, single, small (<30ccs)	Right interior
3=Serious	Cerebral brain swelling, mild	Right interior
3=Serious	Cerebral subarachnoid hemorrhage	Right interior
3=Serious	Cerebral subarachnoid hemorrhage	Right interior
2=Moderate	Oculomotor nerve injury, NFS	Right interior
4=Severe	Lung contusion, bilateral	Right hardware
1=Minor	297402	Right interior
1=Minor	Facial skin abrasion	Right interior
1=Minor	Facial skin contusion	Right interior
1=Minor	Facial skin laceration, minor	Flying glass
1=Minor	Upper extremity skin contusion	Belt webb/buckle
5=Critical	Unconscious on admission, inappropriate movements	Right interior

Occupant: 2003-73-20-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Mercury Cougar XR7
Year	1995
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	160

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	MODERATE 2
CDC	1 R Z E W 2
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	CONCRETE BARRIER

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-OV RGHT
Attempted Avoidance Manuever	STEERING LEFT
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	26.229
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DRIVER Factors

Rollover Characteristics

Number of Events	6
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	49	Height	175	Weight	77
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-73-20-2-1
MAIS	0=None
Seat Position	Front left side

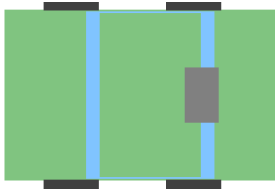
AIS Level	Injury Description	Contacts
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Occupant: 2003-73-20-4-1



Fire Information

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	9 99
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	26.229
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Rollover Characteristics

Number of Events	6
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Saturn SC
Year	1997
Class	Unknown
Body Type	2DR SEDAN/HT/CPE
Weight	105

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-OV LEFT
Attempted Avoidance Maneuver	STEERING RIGHT
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	99	Height	999	Weight	999
Gender			9		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			9		

Restraint Factors

Restrain	99
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

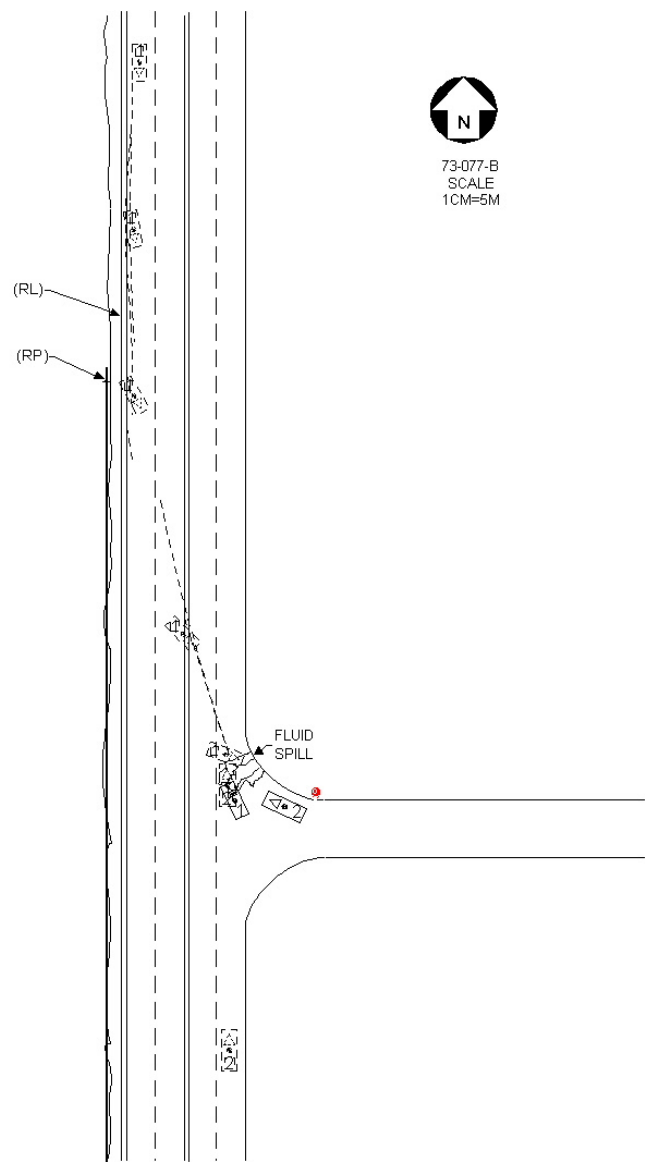
Occupant	2003-73-20-4-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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26 Case 2003-73-77

Summary:

Vehicle 1, a 1997 Ford Escort, was traveling south on a two way, four lane roadway in the southbound lanes. V1 partially exited the roadway right and came back on crossing the centerline in a yaw. V1 entered the oncoming lanes of traffic and struck V2. Vehicle 2 a 2001 Dodge Caravan was traveling north in the first northbound lane of the same roadway. V1 struck V2 on the front left corner with the passenger side. Both vehicles came to final rest in the northbound lanes of the roadway. V1driver died prior to admission with multiple brain injury and lung contusion. V2 was occupied by the driver and three passengers. Two of the passengers were children seated in child restraints. All four occupants in V2 were transported to a medical facility for treatment. Both vehicles were towed from the crash scene due to impact damage. Both vehicles were equipped with dual frontal air bags. The air bags in both vehicles deployed from the impact.)



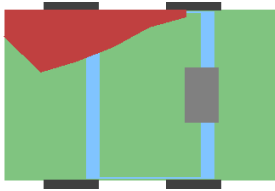
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Ford	Escort/EXP	1997	1	37	MALE	5=Critical
2	MINIVAN	Dodge	Caravan	2001	1	34	FEMALE-NOT PREG	2=Moderate
2	MINIVAN	Dodge	Caravan	2001	2	54	FEMALE-NOT PREG	3=Serious
2	MINIVAN	Dodge	Caravan	2001	3	2	FEMALE-NOT PREG	1=Minor
2	MINIVAN	Dodge	Caravan	2001	4	1	MALE	0=None

Occupant: 2003-73-77-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	74 -37 -64
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R Y E W 6
Damage (C1-C6)	10 25 53 74 91 38
Crush (L and D)	229 94
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	24.477
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	Not REPORTED
Alcohol Test (< 95 indicates BAC 0.xx)	17

Vehicle Factors

Make-Model	Ford Escort/EXP
Year	1997
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	111

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	STEERING LEFT
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	37	Height	191	Weight	97
Gender					MALE
Ejection					PARTIAL EJECTION
Ejection Area					Right REAR
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

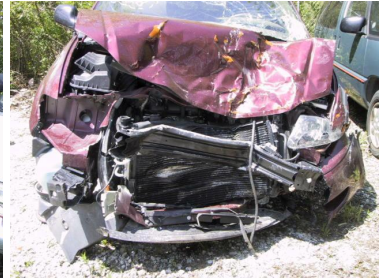
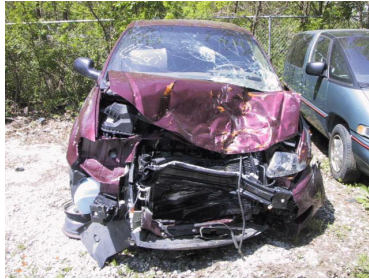
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-73-77-1-1
MAIS	5=Critical
Seat Position	Front left side

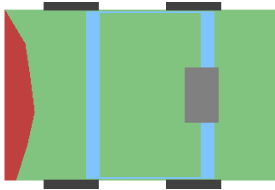
AIS Level	Injury Description	Contacts
5=Critical	Cerebral subdural hematoma, small (<50ccs), bilateral	Right interior
3=Serious	140611	Right interior
3=Serious	Cerebral subarachnoid hemorrhage	Right interior
4=Severe	Lung contusion, bilateral	Right interior
1=Minor	Facial skin abrasion	Right interior
1=Minor	Facial skin laceration, minor	Right interior
1=Minor	Scalp contusion	Right interior
1=Minor	Upper extremity skin abrasion	Flying glass
1=Minor	Upper extremity skin laceration, minor	Flying glass
1=Minor	Leg skin abrasion	Center panel
1=Minor	Leg skin abrasion	Floor
1=Minor	Leg skin abrasion	Steering rim

Occupant: 2003-73-77-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Ethanol



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	43 -42 7
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 3
Damage (C1-C6)	17 33 44 38 31 0
Crush (L and D)	162 -16
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	24.477
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Dodge Caravan
Year	2001
Class	TRUCK
Body Type	MINIVAN
Weight	190

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	BRAKE UNK LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	34	Height	165	Weight	82
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

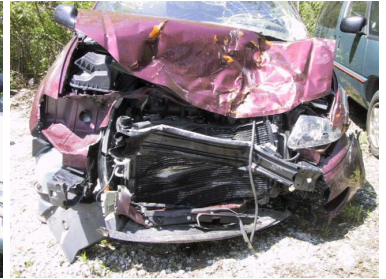
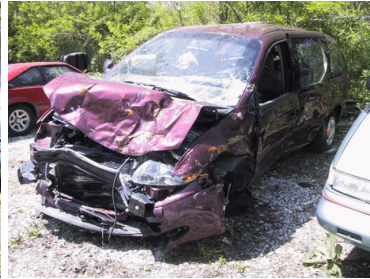
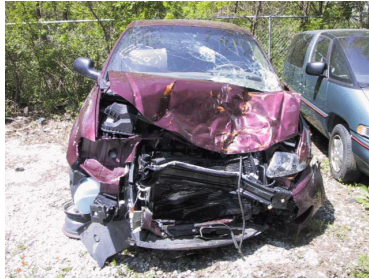
Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-73-77-2-1
MAIS	2=Moderate
Seat Position	Front left side

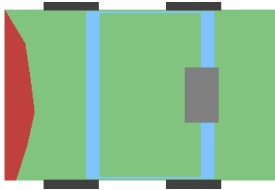
AIS Level	Injury Description	Contacts
2=Moderate	Talus fracture	Floor
1=Minor	Upper extremity skin abrasion	Left apnel
1=Minor	Upper extremity skin laceration, minor	Left apnel
1=Minor	Leg skin abrasion	Knee bolster
1=Minor	Leg skin contusion (hematoma)	Knee bolster

Occupant: 2003-73-77-2-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Ethanol



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	43 -42 7
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 3
Damage (C1-C6)	17 33 44 38 31 0
Crush (L and D)	162 -16
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	24.477
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Dodge Caravan
Year	2001
Class	TRUCK
Body Type	MINIVAN
Weight	190

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	BRAKE UNK LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	54	Height	152	Weight	66
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

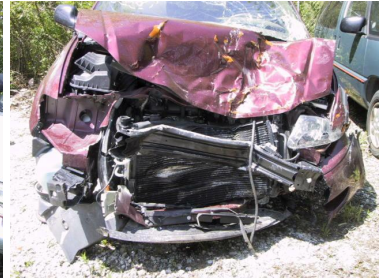
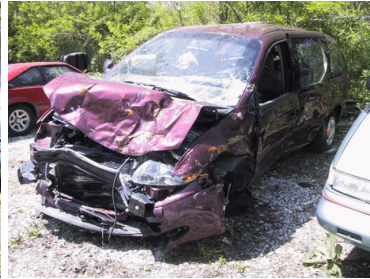
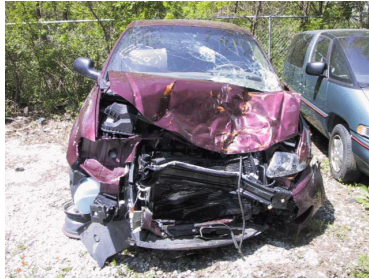
Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-73-77-2-2
MAIS	3=Serious
Seat Position	Front right side

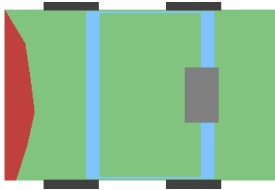
AIS Level	Injury Description	Contacts
3=Serious	Radial fracture, open/displaced/comminuted	Left apnel
1=Minor	Upper extremity skin abrasion	Air bag-PS side
1=Minor	Upper extremity skin laceration, minor	Air bag-PS side
1=Minor	Leg skin abrasion	Knee bolster
1=Minor	Leg skin contusion (hematoma)	Knee bolster

Occupant: 2003-73-77-2-3



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Ethanol



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	43 -42 7
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 3
Damage (C1-C6)	17 33 44 38 31 0
Crush (L and D)	162 -16
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	24.477
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Dodge Caravan
Year	2001
Class	TRUCK
Body Type	MINIVAN
Weight	190

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	BRAKE UNK LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	2	Height	999	Weight	17
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

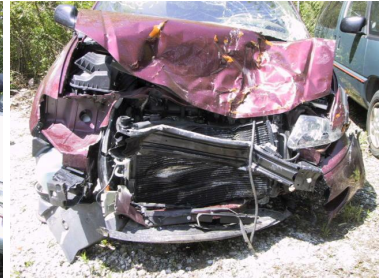
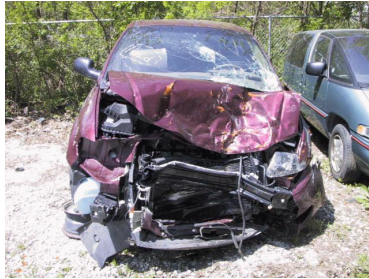
Restrain	Lap+sh w/ch seat
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-73-77-2-3
MAIS	1=Minor
Seat Position	Second left

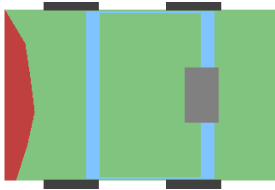
AIS Level	Injury Description	Contacts
1=Minor	Thoracic skin abrasion	Belt webb/buckle

Occupant: 2003-73-77-2-4



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Ethanol



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	43 -42 7
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 3
Damage (C1-C6)	17 33 44 38 31 0
Crush (L and D)	162 -16
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	24.477
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Dodge Caravan
Year	2001
Class	TRUCK
Body Type	MINIVAN
Weight	190

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	BRAKE UNK LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	1	Height	999	Weight	12
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap+sh w/ch seat
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

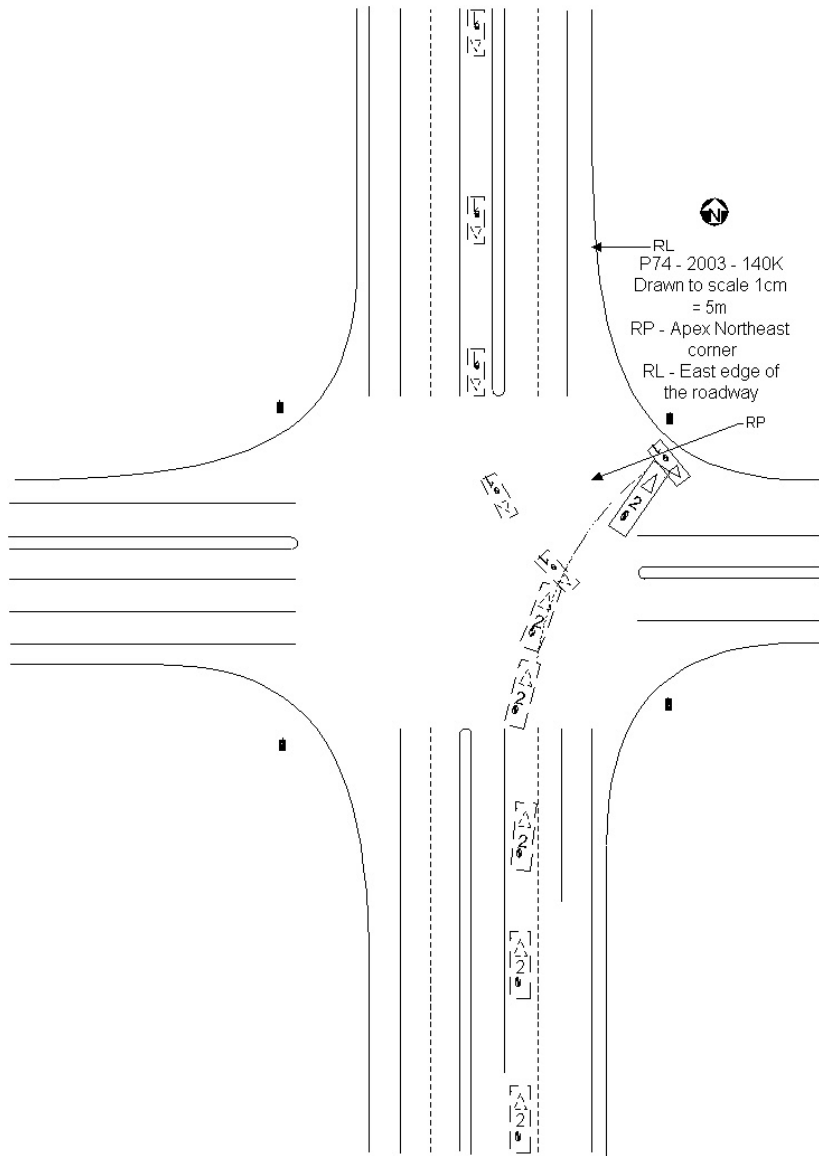
Occupant	2003-73-77-2-4
MAIS	0=None
Seat Position	Third right

AIS Level	Injury Description	Contacts
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27 Case 2003-74-140

Summary:

Vehicle 1 (1997 Chevrolet K-1500) was traveling south on a six lane, median divided, concrete roadway in lane four, attempting to turn left at the intersection. Vehicle 2 (1999 International 4700 Straight Truck) was traveling north on the same roadway in lane three, attempting to pass through the intersection. The roadway was dry and there were no adverse weather conditions. At the intersection, vehicle 1 turned left. Vehicle 2 attempted to avoid vehicle 1 by braking and steering right. In the intersection, the front of vehicle 2 contacted the right side of vehicle 1. Both vehicles came to final rest on the northeast corner of the intersection. Vehicle 1 was towed due to damages. No air bags deployed in either vehicle. The restrained driver of vehicle 1 was hospitalized with upper arm and hip fracture.)



Vehicle	Body type	Make	Model	Year	Occ Age	Occupant's sex	Maximum known occupant ais
1	LARGE PICKUP	Chevrolet	C,K,R,V-series Pickup	1997	74	FEMALE-NOT PREG	3=Serious

Occupant: 2003-74-140-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R D A W 5
Damage (C1-C6)	34 41 87 83 66 29
Crush (L and D)	245 7
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	9.648
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Chevrolet C,K,R,V-series Pickup
Year	1997
Class	TRUCK
Body Type	LARGE PICKUP
Weight	208

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	TURN LEFT-INTERS
Attempted Avoidance Manuever	99
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	74	Height	163	Weight	50
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

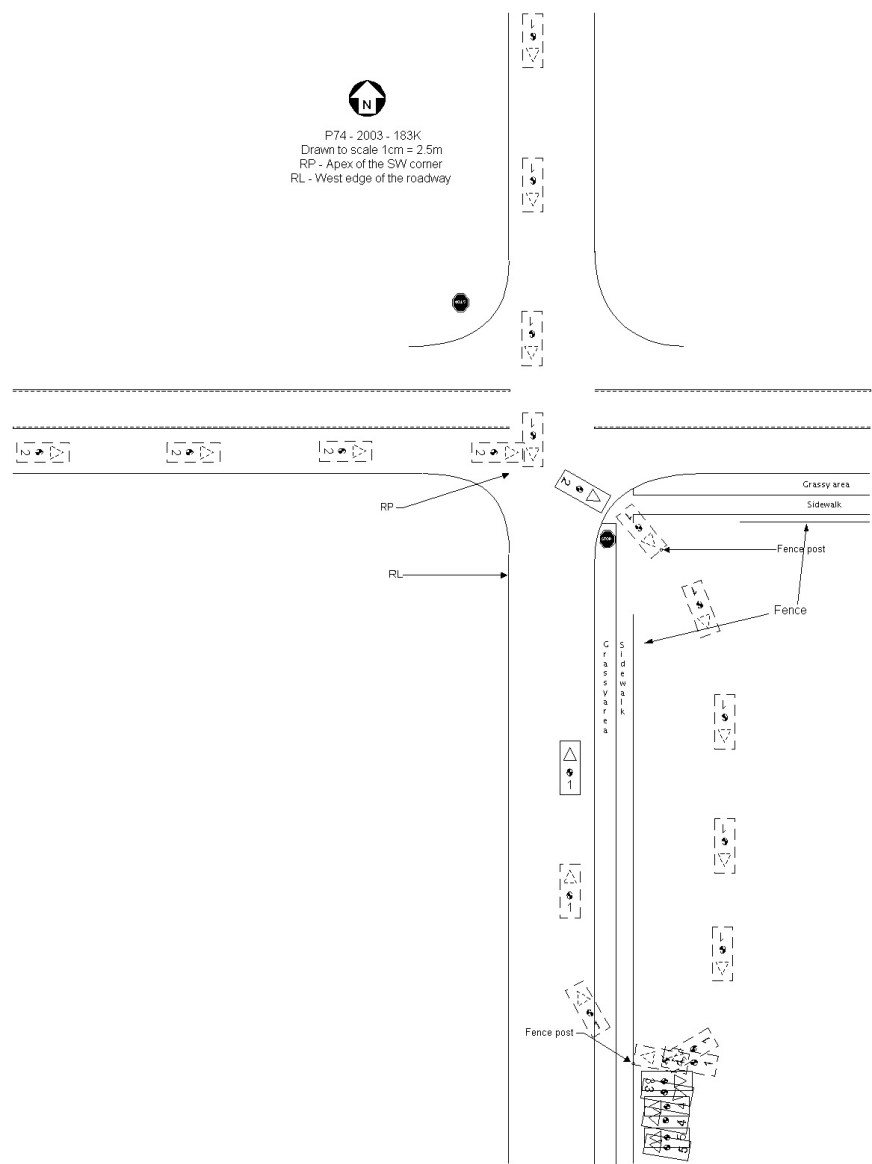
Occupant	2003-74-140-1-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Humeral fracture, open/displaced/comminuted	Steering rim
2=Moderate	Acromion fracture	Belt webb/buckle
3=Serious	Pelvic fracture, open/displaced/comminuted	Seat, back
3=Serious	Lumbar fracture of facet without cord injury	Seat, back
1=Minor	Upper extremity skin abrasion	Belt webb/buckle
1=Minor	Upper extremity skin contusion	Belt webb/buckle
1=Minor	Thoracic skin contusion	Belt webb/buckle

28 Case 2003-74-183

Summary:

V1 (1989 Ford Taurus Wagon) was traveling south on a two lane, non-divided, level, concrete roadway in lane one, approaching an intersection. V2 (1991 Ford Explorer) was traveling east on a three lane, non-divided, level, concrete roadway in lane one, approaching the same intersection. The north-south roadway is governed by stop signs in both directions, east and westbound traffic has no regulatory signs. There were no adverse weather conditions and the roadway was dry. It was late afternoon, approximately 4:42pm. At the intersection the front of V2 impacted the right side of V1. V2 final rested on the southeast corner. After the first impact, V1 continued onto the southeast corner and struck a metal fence pole and fence that surrounded a private parking lot. V1 continued south through the parking lot, and, while turning to the right, struck V3 (1992 Ford Tempo), which was parked facing east, in the left side with it's front, then, in the front with it's left side. The impact(s) pushed V3 into another parked vehicle. V1 then another metal fence pole and fence with its left side and continued through the fence, re-entered the roadway facing north, and came to final rest facing generally north.. All three vehicles were towed from the scene due to damage. None of the vehicles was equipped with an air bag. The restrained V1 driver was hospitalized with rib fractures and a lung contusion. The restrained V2 driver was not injured and the restrained V2 right front seat passenger received a minor contusion, but was not treated. V3 was unoccupied and legally parked in a private lot at the time of the crash.)



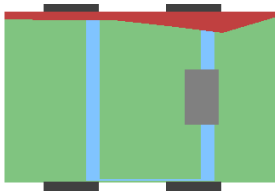
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	STATION WAGON	Ford	Taurus	1989	1	83	FEMALE-NOT PREG	4=Severe
2	COMPACT UTILITY	Ford	Bronco II	1991	1	55	MALE	0=None
2	COMPACT UTILITY	Ford	Bronco II	1991	2	45	FEMALE-NOT PREG	1=Minor

Occupant: 2003-74-183-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Ford Taurus
Year	1989
Class	PASSENGER CAR
Body Type	STATION WAGON
Weight	144

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	20 -7 -19
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R D A W 2
Damage (C1-C6)	6 29 20 11 11 9
Crush (L and D)	178 -12
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	Not IN TRAN LGTVEH

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	99
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	16.408
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DRIVER Factors

Rollover Characteristics

Number of Events	5
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	83	Height	155	Weight	73
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-74-183-1-1
MAIS	4=Severe
Seat Position	Front left side

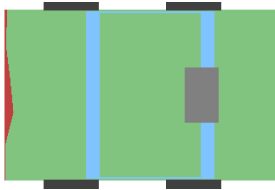
AIS Level	Injury Description	Contacts
4=Severe	>3 rib fxs on one side & <3 other side & hemo-/pneumothorax	Unknown SOURCE
3=Serious	Lung contusion, unilateral	Unknown SOURCE
1=Minor	Leg skin contusion (hematoma)	Center panel

Occupant: 2003-74-183-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	16 -15 5
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F D E W 1
Damage (C1-C6)	2 0 13 8 2 4
Crush (L and D)	160 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	16.408
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Rollover Characteristics

Number of Events	5
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Ford Bronco II
Year	1991
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	174

Pre-Crash Driver Data

Accident Type	86
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	55	Height	183	Weight	109
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-74-183-2-1
MAIS	0=None
Seat Position	Front left side

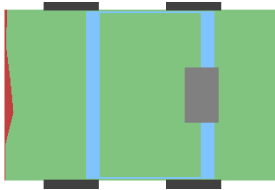
AIS Level	Injury Description	Contacts
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Occupant: 2003-74-183-2-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	16 -15 5
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F D E W 1
Damage (C1-C6)	2 0 13 8 2 4
Crush (L and D)	160 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	16.408
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Rollover Characteristics

Number of Events	5
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Ford Bronco II
Year	1991
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	174

Pre-Crash Driver Data

Accident Type	86
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	45	Height	170	Weight	76
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

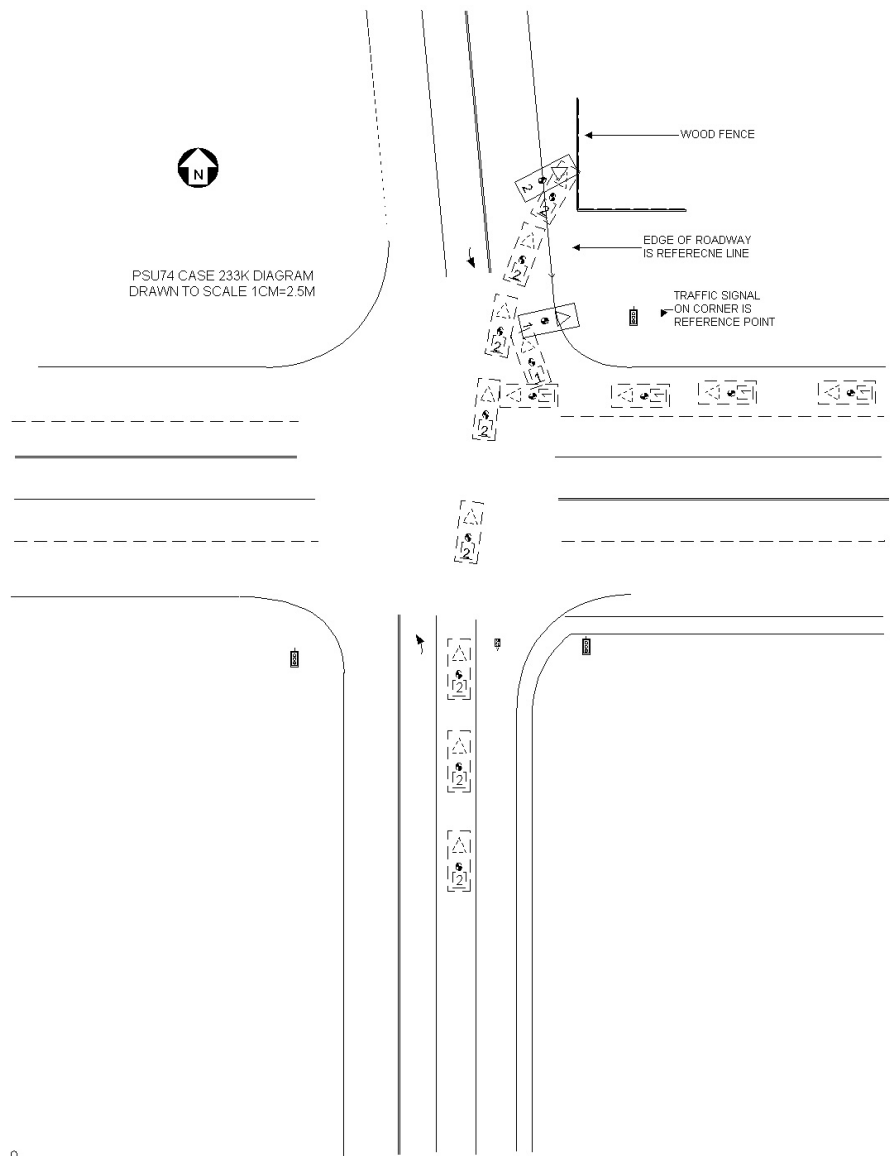
Occupant	2003-74-183-2-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin contusion	Other occupants

29 Case 2003-74-233

Summary:

Vehicle 1 (2000 Jeep Grand Cherokee) was headed west on a five lane undivided street. Vehicle 2 (1998 Toyota Avalon) was headed north on a four lane undivided street. As vehicle 2 entered into the intersection, the right side was contacted by the front of vehicle 1. This impact caused vehicle 2 to go off the right road edge and contact a wooden fence with the front bumper. Vehicle 1 was equipped with frontal airbags that did not deploy. Vehicle 2 was equipped with frontal and side airbags. Only the right passenger side bag deployed due to the accident. Both vehicles were towed due to damage. The driver of V1 was not injured. The driver of V2 was hospitalized with a rib fracture. The hood edge of V 1 intruded into the right front passenger/seating compartment of V 2 during the crash. The RF passenger of V 2 was hospitalized with brain hemorrhage, right hip fracture and facial laceration.)



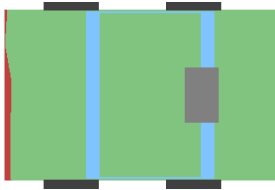
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT UTILITY	Jeep	Cherokee84-	2000	1	22	FEMALE-NOT PREG	0=None
2	4-DR SEDAN/HDTOP	Toyota	Avalon	1998	1	70	FEMALE-NOT PREG	3=Serious
2	4-DR SEDAN/HDTOP	Toyota	Avalon	1998	2	72	MALE	4=Severe

Occupant: 2003-74-233-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	17 -6 16
Est. δV with sequence number	DELTA V CODED 1
CDC	70 F D E W 1
Damage (C1-C6)	9 8 9 9 0 4
Crush (L and D)	162 -5
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	9.648
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Jeep Cherokee84-
Year	2000
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	187

Pre-Crash Driver Data

Accident Type	86
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	22	Height	168	Weight	61
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-74-233-1-1
MAIS	0=None
Seat Position	Front left side

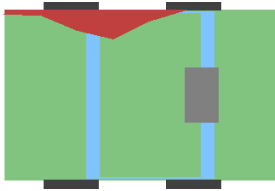
AIS Level	Injury Description	Contacts
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Occupant: 2003-74-233-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Toyota Avalon
Year	1998
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	152

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	20 -20 -4
Est. δV with sequence number	DELTA V CODED 1
CDC	12 R Y E W 3
Damage (C1-C6)	0 16 42 30 7 6
Crush (L and D)	306 69
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	FENCE

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	9.648
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DRIVER Factors

Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	70	Height	165	Weight	64
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	BAG DEPLOYED

Injuries

Occupant	2003-74-233-2-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Abdominal skin contusion	Transmiss lever
1=Minor	Upper extremity skin abrasion	Belt webb/buckle
1=Minor	Upper extremity skin contusion	Belt webb/buckle
3=Serious	Single rib fracture with hemo-/pneumothorax	Transmiss lever

Occupant: 2003-74-233-2-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	20 -20 -4
Est. δV with sequence number	DELTA V CODED 1
CDC	12 R Y E W 3
Damage (C1-C6)	0 16 42 30 7 6
Crush (L and D)	306 69
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	FENCE

NASS Weighting Factor

Weighting factor	9.648
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Toyota Avalon
Year	1998
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	152

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	72	Height	165	Weight	65
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	BAG DEPLOYED

Injuries

Occupant	2003-74-233-2-2
MAIS	4=Severe
Seat Position	Front right side

AIS Level	Injury Description	Contacts
3=Serious	Intertrochanteric femoral fracture	Right interior
3=Serious	Cerebral subarachnoid hemorrhage	OMV hood edge
4=Severe	Cerebral intraventricular hemorrhage	OMV hood edge
2=Moderate	Lethargic on admission, unconscious <1 hour	OMV hood edge
1=Minor	Facial skin laceration, minor	OMV hood edge
1=Minor	Leg skin contusion (hematoma)	Right interior

30 Case 2003-75-29

Summary:

Vehicle 1 was heading westbound in lane two, of a five-lane roadway that is physically divided. At this point, the road consists of two eastbound through lanes, a raised center median, two westbound through lanes and a westbound turn lane. Vehicle 1 was negotiating a right curve and was approaching an intersection. The intersection is at a hillcrest. Vehicle 2 was traveling eastbound in lane two, of a four-lane roadway that is not physically divided. The road consists of two eastbound lanes, a painted median and two westbound lanes. Vehicle 3 was traveling eastbound in lane one. Vehicle 1 traveled through the intersection and began to rotate clockwise. The vehicle then entered into the center median where it began to rotate counterclockwise from driver input. Vehicle 1 continued across the median into the eastbound lanes. The front of Vehicle 2 and the right of Vehicle 1 made contact. Vehicle 2 rotated clockwise and was impacted on the left side by Vehicle 3. Vehicle 2 came to rest easterly in across the two eastbound lane lines. V1 came to rest near the point of impact facing southeast. V3 continued forward as it rotated counterclockwise. V3 came to rest on the center lane line for the eastbound lanes. The vehicle was facing southwest. All three vehicles were towed due to damage. V1 was equipped with dual frontal airbags, which did deploy. The vehicle was also equipped with a driver's side air bag in the seat cushion, this airbag did not deploy. V2 was equipped with dual frontal airbags that did deploy. V3 was equipped with dual frontal airbags that did not deploy. V1 had eight occupants. The driver was hospitalized with brain and chest trauma. The front middle seat passenger was hospitalized with multiple fractures. The front right seat passenger died from unspecified head and neck injuries. The left rear seat passenger was hospitalized for observation and released with lacerations. The center rear seat passenger was fatal with unspecified head injury. The other center seat passenger was hospitalized with brain injury. The third center rear seat passenger was hospitalized overnight for observation and released with minor abrasion and contusion. The right rear seat passenger died of multiple skull fractures and brain laceration. All three occupants in V2 were injured. The driver was treated for a chipped foot bone and released. Occupant #2 was hospitalized for a concussion. Occupant #3 was hospitalized for a broken collarbone. V3 had two occupants. The driver was not injured. Occupant #2 was transported for a sore lower back and released.)

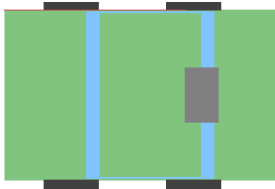
Vehicle ID	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant AIS
1	4-DR SEDAN/HDTOP	Chevrolet	Caprice/Impala	2000	1	16	FEMALE-NOT PREG	5=Critical
1	4-DR SEDAN/HDTOP	Chevrolet	Caprice/Impala	2000	2	14	FEMALE-NOT PREG	4=Severe
1	4-DR SEDAN/HDTOP	Chevrolet	Caprice/Impala	2000	3	15	FEMALE-NOT PREG	7=Unk. sev.
1	4-DR SEDAN/HDTOP	Chevrolet	Caprice/Impala	2000	4	16	MALE	2=Moderate
1	4-DR SEDAN/HDTOP	Chevrolet	Caprice/Impala	2000	5	14	MALE	2=Moderate
1	4-DR SEDAN/HDTOP	Chevrolet	Caprice/Impala	2000	6	15	MALE	4=Severe
1	4-DR SEDAN/HDTOP	Chevrolet	Caprice/Impala	2000	7	14	MALE	1=Minor
1	4-DR SEDAN/HDTOP	Chevrolet	Caprice/Impala	2000	8	15	MALE	4=Severe
2	MINIVAN	Dodge	Caravan	1999	1	39	FEMALE-NOT PREG	2=Moderate
2	MINIVAN	Dodge	Caravan	1999	2	3	MALE	3=Serious
2	MINIVAN	Dodge	Caravan	1999	3	6	FEMALE-NOT PREG	2=Moderate
3	4-DR SEDAN/HDTOP	Honda	Accord	1995	1	47	MALE	0=None
3	4-DR SEDAN/HDTOP	Honda	Accord	1995	2	50	FEMALE-NOT PREG	1=Minor

Occupant: 2003-75-29-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	SEVERE 1
CDC	1 R Y A W 4
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	34.661
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	CURVE RIGHT
Roadway Profile	HILL CREST
Roadway Surface Type	ASPHALT
Roadway Surface Condition	Other
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet Caprice/Impala
Year	2000
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	154

Pre-Crash Driver Data

Accident Type	64
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	Unk CONTROL LOSS
Attempted Avoidance Manuever	99
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	16	Height	163	Weight	52
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					9

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	NONDEPLOYED

Injuries

Occupant	2003-75-29-1-1
MAIS	5=Critical
Seat Position	Front left side

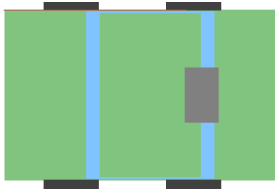
AIS Level	Injury Description	Contacts
5=Critical	Cerebral diffuse axonal injury	Unknown SOURCE
4=Severe	Cerebral intraventricular hemorrhage	Unknown SOURCE
4=Severe	Cerebral intraventricular hemorrhage	Unknown SOURCE
3=Serious	Unconscious on admission, length <1 hour	Unknown SOURCE
4=Severe	Lung contusion, bilateral	Seat, back
3=Serious	>3 rib fractures one side & <3 other side, with stable chest	Seat, back
2=Moderate	Hepatic laceration, minor (<3cms deep, EBL<201=Minor	Upper extremity skin abrasion
Belt webb/buckle		
1=Minor	690202	Belt webb/buckle
1=Minor	Leg skin abrasion	Center panel

Occupant: 2003-75-29-1-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	CURVE RIGHT
Roadway Profile	HILL CREST
Roadway Surface Type	ASPHALT
Roadway Surface Condition	Other
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet Caprice/Impala
Year	2000
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	154

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	SEVERE 1
CDC	1 R Y A W 4
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	64
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	Unk CONTROL LOSS
Attempted Avoidance Manuever	99
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

NASS Weighting Factor

Weighting factor	34.661
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PASSENGER Factors

Age	14	Height	999	Weight	999
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					9

Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	NONDEPLOYED

Injuries

Occupant	2003-75-29-1-2
MAIS	4=Severe
Seat Position	Front other

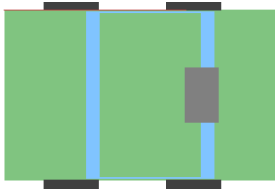
AIS Level	Injury Description	Contacts
4=Severe	Lung contusion, bilateral	Center panel
3=Serious	Internal carotid artery traumatic aneurysm	Center panel
2=Moderate	Lethargic on admission, never unconscious	Center panel
3=Serious	2-3 rib fractures with stable chest and hemo-/pneumothorax	Center panel
2=Moderate	Thoracic transverse process fracture without cord injury	Center panel
2=Moderate	Lumbar fracture of transverse process without cord injury	Center panel
3=Serious	Femoral shaft fracture	Center panel
3=Serious	Radial fracture, open/displaced/comminuted	Center panel
3=Serious	Ulnar fracture, open/displaced/comminuted	Center panel
2=Moderate	Humeral fracture, closed	Center panel
2=Moderate	Tibial fracture of the medial malleolus	Floor
2=Moderate	Fibular lateral malleolus fracture	Floor
2=Moderate	Pelvic fracture, closed	Center panel
3=Serious	Sacroiliac fracture	Center panel
2=Moderate	Hepatic laceration, minor (<3cms deep, EBL<20ml)	Splenic laceration, minor (tear<3cms deep, no major vessel)
Center panel		
2=Moderate	Small bowel contusion (hematoma)	Center panel
1=Minor	Facial skin laceration, minor	Center panel
1=Minor	Abdominal skin contusion	Center panel
1=Minor	Upper extremity skin abrasion	Center panel
1=Minor	Leg skin abrasion	Center panel

Occupant: 2003-75-29-1-3



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	CURVE RIGHT
Roadway Profile	HILL CREST
Roadway Surface Type	ASPHALT
Roadway Surface Condition	Other
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet Caprice/Impala
Year	2000
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	154

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	SEVERE 1
CDC	1 R Y A W 4
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	64
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	Unk CONTROL LOSS
Attempted Avoidance Manuever	99
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

NASS Weighting Factor

Weighting factor	34.661
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PASSENGER Factors

Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	15	Height	999	Weight	999
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					9

Restraint Factors

Restrain	99
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	NONDEPLOYED

Injuries

Occupant	2003-75-29-1-3
MAIS	7=Unk. sev.
Seat Position	Front right side

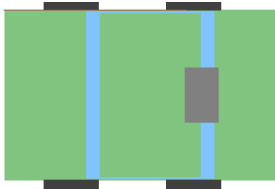
AIS Level	Injury Description	Contacts
7=Unk. sev.	Head injury, closed, NFS	Unknown SOURCE
7=Unk. sev.	315099	Unknown SOURCE

Occupant: 2003-75-29-1-4



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	SEVERE 1
CDC	1 R Y A W 4
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	34.661
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	CURVE RIGHT
Roadway Profile	HILL CREST
Roadway Surface Type	ASPHALT
Roadway Surface Condition	Other
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet Caprice/Impala
Year	2000
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	154

Pre-Crash Driver Data

Accident Type	64
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	Unk CONTROL LOSS
Attempted Avoidance Manuever	99
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	16	Height	999	Weight	999
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			9		

Restraint Factors

Restrain	99
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	NONDEPLOYED

Injuries

Occupant	2003-75-29-1-4
MAIS	2=Moderate
Seat Position	Second left

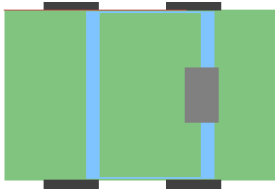
AIS Level	Injury Description	Contacts
7=Unk. sev.	Abdominal injury, blunt	Unknown SOURCE
2=Moderate	Awake on admission, unconscious <1 hour	Unknown SOURCE
1=Minor	Scalp laceration, minor	Unknown SOURCE
1=Minor	Leg skin laceration, minor	Unknown SOURCE

Occupant: 2003-75-29-1-5



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	SEVERE 1
CDC	1 R Y A W 4
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	34.661
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	CURVE RIGHT
Roadway Profile	HILL CREST
Roadway Surface Type	ASPHALT
Roadway Surface Condition	Other
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet Caprice/Impala
Year	2000
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	154

Pre-Crash Driver Data

Accident Type	64
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	Unk CONTROL LOSS
Attempted Avoidance Manuever	99
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	14	Height	999	Weight	999
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			9		

Restraint Factors

Restrain	99
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	NONDEPLOYED

Injuries

Occupant	2003-75-29-1-5
MAIS	2=Moderate
Seat Position	Second other

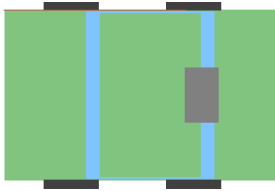
AIS Level	Injury Description	Contacts
2=Moderate	Skull fracture, vault, NFS	Unknown SOURCE

Occupant: 2003-75-29-1-6



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	SEVERE 1
CDC	1 R Y A W 4
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	34.661
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	CURVE RIGHT
Roadway Profile	HILL CREST
Roadway Surface Type	ASPHALT
Roadway Surface Condition	Other
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet Caprice/Impala
Year	2000
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	154

Pre-Crash Driver Data

Accident Type	64
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	Unk CONTROL LOSS
Attempted Avoidance Manuever	99
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	15	Height	999	Weight	999
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			9		

Restraint Factors

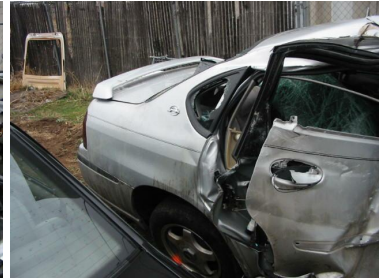
Restrain	99
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	NONDEPLOYED

Injuries

Occupant	2003-75-29-1-6
MAIS	4=Severe
Seat Position	Second middle

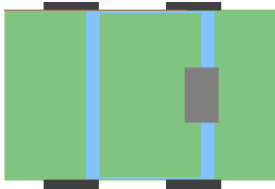
AIS Level	Injury Description	Contacts
4=Severe	Intracerebral hematoma, small subcortical	Unknown SOURCE
4=Severe	Cerebellar hematoma, intracerebellar, small (<15ccs)	Unknown SOURCE
2=Moderate	Lethargic on admission, unconscious <1 hour	Unknown SOURCE
1=Minor	Facial skin abrasion	Unknown SOURCE
1=Minor	Scalp contusion	Unknown SOURCE

Occupant: 2003-75-29-1-7



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	SEVERE 1
CDC	1 R Y A W 4
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	34.661
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	CURVE RIGHT
Roadway Profile	HILL CREST
Roadway Surface Type	ASPHALT
Roadway Surface Condition	Other
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet Caprice/Impala
Year	2000
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	154

Pre-Crash Driver Data

Accident Type	64
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	Unk CONTROL LOSS
Attempted Avoidance Manuever	99
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	14	Height	999	Weight	999
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			9		

Restraint Factors

Restrain	99
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	NONDEPLOYED

Injuries

Occupant	2003-75-29-1-7
MAIS	1=Minor
Seat Position	Second other

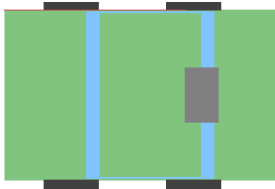
AIS Level	Injury Description	Contacts
1=Minor	Leg skin abrasion	Seat, back
1=Minor	Leg skin contusion (hematoma)	Seat, back

Occupant: 2003-75-29-1-8



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	CURVE RIGHT
Roadway Profile	HILL CREST
Roadway Surface Type	ASPHALT
Roadway Surface Condition	Other
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet Caprice/Impala
Year	2000
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	154

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	SEVERE 1
CDC	1 R Y A W 4
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	64
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	Unk CONTROL LOSS
Attempted Avoidance Manuever	99
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

NASS Weighting Factor

Weighting factor	34.661
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PASSENGER Factors

Age	15	Height	999	Weight	999
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			9		

Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Restraint Factors

Restrain	99
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	NONDEPLOYED

Injuries

Occupant	2003-75-29-1-8
MAIS	4=Severe
Seat Position	Second right

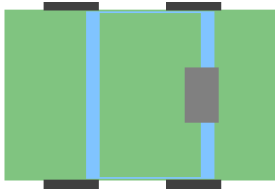
AIS Level	Injury Description	Contacts
4=Severe	Cerebral laceration	Unknown SOURCE
3=Serious	Basilar skull fracture, NFS	Unknown SOURCE
3=Serious	Lung laceration NFS	Unknown SOURCE
2=Moderate	Rib cage fracture NFS	Unknown SOURCE
1=Minor	Facial bone fracture NFS	Unknown SOURCE

Occupant: 2003-75-29-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	MODERATE 1
CDC	12 F D E W 99
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 3

NASS Weighting Factor

Weighting factor	34.661
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Dodge Caravan
Year	1999
Class	TRUCK
Body Type	MINIVAN
Weight	196

Pre-Crash Driver Data

Accident Type	65
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	39	Height	155	Weight	53
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-75-29-2-1
MAIS	2=Moderate
Seat Position	Front left side

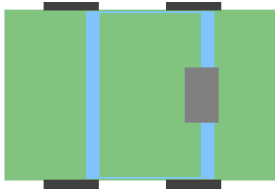
AIS Level	Injury Description	Contacts
2=Moderate	Foot fracture NFS	Floor
1=Minor	Leg skin contusion (hematoma)	Knee bolster
1=Minor	Upper extremity skin contusion	Air bag-DR side
1=Minor	Acute cervical spine strain without fracture or dislocation	Belt webb/buckle
1=Minor	Shoulder sprain (glenohumeral joint)	Steering rim

Occupant: 2003-75-29-2-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	MODERATE 1
CDC	12 F D E W 99
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 3

NASS Weighting Factor

Weighting factor	34.661
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Dodge Caravan
Year	1999
Class	TRUCK
Body Type	MINIVAN
Weight	196

Pre-Crash Driver Data

Accident Type	65
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	3	Height	999	Weight	16
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-75-29-2-2
MAIS	3=Serious
Seat Position	Second left

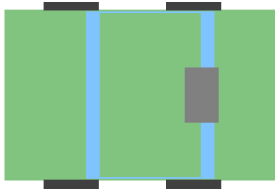
AIS Level	Injury Description	Contacts
1=Minor	Leg skin contusion (hematoma)	Unknown SOURCE
2=Moderate	Lethargic on admission, never unconscious	Seat, back
3=Serious	Lung contusion, unilateral	Seat, back
1=Minor	Abdominal skin abrasion	Belt webb/buckle
1=Minor	Abdominal skin contusion	Belt webb/buckle

Occupant: 2003-75-29-2-3



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	MODERATE 1
CDC	12 F D E W 99
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 3

NASS Weighting Factor

Weighting factor	34.661
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Dodge Caravan
Year	1999
Class	TRUCK
Body Type	MINIVAN
Weight	196

Pre-Crash Driver Data

Accident Type	65
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	6	Height	999	Weight	20
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-75-29-2-3
MAIS	2=Moderate
Seat Position	Second middle

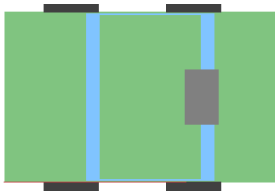
AIS Level	Injury Description	Contacts
2=Moderate	Clavicle fracture	Belt webb/buckle

Occupant: 2003-75-29-3-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	MINOR 2
CDC	12 L Y A S 9
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	34.661
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Honda Accord
Year	1995
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	127

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-OV LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	47	Height	178	Weight	75
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-75-29-3-1
MAIS	0=None
Seat Position	Front left side

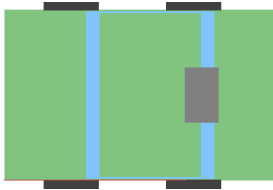
AIS Level	Injury Description	Contacts
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Occupant: 2003-75-29-3-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	MINOR 2
CDC	12 L Y A S 9
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	34.661
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	96

Vehicle Factors

Make-Model	Honda Accord
Year	1995
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	127

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-OV LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	50	Height	160	Weight	70
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

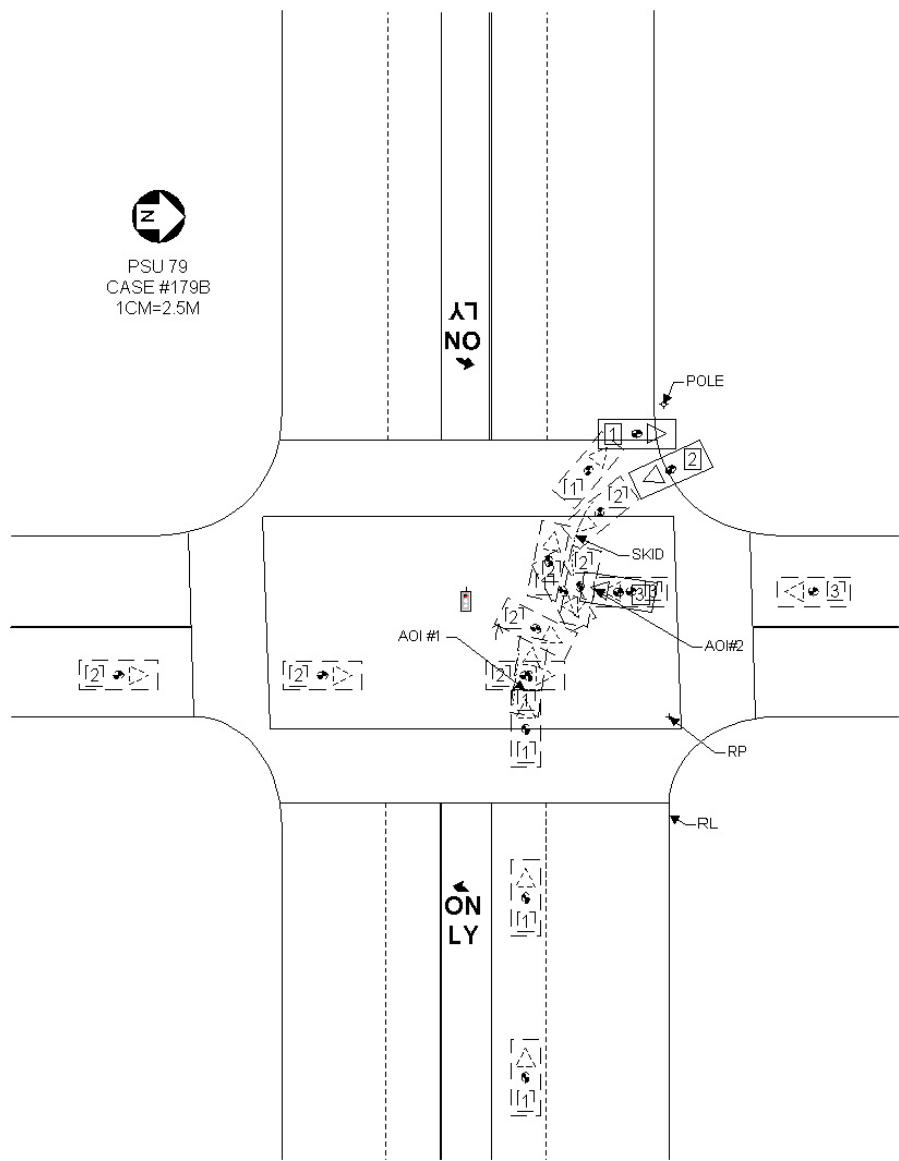
Occupant	2003-75-29-3-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Lumbar spine acute strain without fracture or dislocation	Seat, back
1=Minor	Skin contusion (body region unknown)	Unknown SOURCE

31 Case 2003-79-179

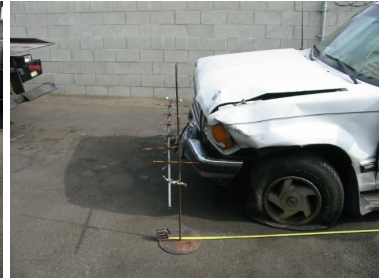
Summary:

Vehicle one, a 1992 Ford Explorer with manual lap and shoulder belts was traveling west in the number two lane of a five lane not physically divided, level, dry, asphalt, roadway with a left turn lane. Vehicle two, a 1987 Ford Taurus with manual lap and shoulder belts was traveling north in the number one lane of a two lane, not physically divided, level, dry, asphalt roadway. Vehicle three, a 1989 Ford Aerostar was traveling south in the number one lane of a two lane not physically divided, level, dry, asphalt, roadway. Vehicle one was towed with moderate damage. Vehicle two was towed with major damage. Vehicle three was driven from scene with minor damage. Driver of vehicle one was transported and released with a scalp laceration. Driver of vehicle two was hospitalized with brain injury. The front seat passenger was hospitalized with multiple fractures. The left rear seat passenger was hospitalized with a brain injury. The right rear seat passenger was dead on arrival in ER with several skull fracture. Driver of vehicle three was not reported as injured.)



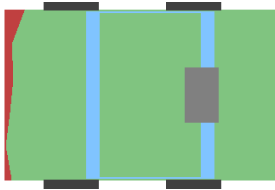
Vehicle	eBody type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT UTILITY	Ford	Bronco II	1992	1	32	MALE	1=Minor
2	4-DR SEDAN/HDTOP	Ford	Taurus	1987	1	36	MALE	5=Critical
2	4-DR SEDAN/HDTOP	Ford	Taurus	1987	2	36	FEMALE-NOT PREG	3=Serious
2	4-DR SEDAN/HDTOP	Ford	Taurus	1987	3	9	FEMALE-NOT PREG	1=Minor
2	4-DR SEDAN/HDTOP	Ford	Taurus	1987	4	7	MALE	5=Critical

Occupant: 2003-79-179-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	43 -40 15
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F D E W 2
Damage (C1-C6)	11 2 8 13 10 29
Crush (L and D)	160 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	6.810
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	34

Vehicle Factors

Make-Model	Ford Bronco II
Year	1992
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	179

Pre-Crash Driver Data

Accident Type	86
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Manuever	BRAKE W/ LOCKUP
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	32	Height	175	Weight	77
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-79-179-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Scalp laceration, minor	Windshield
1=Minor	Awake on admission, never unconscious	Windshield

Occupant: 2003-79-179-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	99

Vehicle Factors

Make-Model	Ford Taurus
Year	1987
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	130

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	52 -26 -45
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R Z A W 5
Damage (C1-C6)	3 40 80 83 26 3
Crush (L and D)	323 -38
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 3

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	6.810
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DRIVER Factors

Age	36	Height	999	Weight	999
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			JAMMED DOOR/FIRE		

Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-79-179-2-1
MAIS	5=Critical
Seat Position	Front left side

AIS Level	Injury Description	Contacts
5=Critical	Cerebral diffuse ax-onal injury	Other occupants
4=Severe	Unconscious on admission, length <1 hour & neuro deficit	Other occupants
1=Minor	Myocardial contusion, minor	Left interior

Occupant: 2003-79-179-2-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	52 -26 -45
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R Z A W 5
Damage (C1-C6)	3 40 80 83 26 3
Crush (L and D)	323 -38
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 3

NASS Weighting Factor

Weighting factor	6.810
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	99

Vehicle Factors

Make-Model	Ford Taurus
Year	1987
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	130

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	36	Height	999	Weight	999
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH Seat

Injuries

Occupant	2003-79-179-2-2
MAIS	3=Serious
Seat Position	Front right side

AIS Level	Injury Description	Contacts
2=Moderate	Rib cage fracture NFS	Right interior
3=Serious	Lung contusion, uni-lateral	Right interior
2=Moderate	Hepatic injury NFS	Right interior
2=Moderate	Scapular fracture	Right B pillar
2=Moderate	Scapular fracture	Right B pillar
2=Moderate	Pelvic fracture NFS	Right interior
2=Moderate	Arm, forearm, hand fracture NFS	Right interior

Occupant: 2003-79-179-2-3



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	99

Vehicle Factors

Make-Model	Ford Taurus
Year	1987
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	130

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	52 -26 -45
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R Z A W 5
Damage (C1-C6)	3 40 80 83 26 3
Crush (L and D)	323 -38
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 3

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	6.810
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PASSENGER Factors

Age	9	Height	999	Weight	999
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-79-179-2-3
MAIS	1=Minor
Seat Position	Second left

AIS Level	Injury Description	Contacts
1=Minor	Scalp abrasion	Unknown SOURCE
1=Minor	Neck skin abrasion	Unknown SOURCE

Occupant: 2003-79-179-2-4



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	52 -26 -45
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R Z A W 5
Damage (C1-C6)	3 40 80 83 26 3
Crush (L and D)	323 -38
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 3

NASS Weighting Factor

Weighting factor	6.810
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	99

Vehicle Factors

Make-Model	Ford Taurus
Year	1987
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	130

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	7	Height	117	Weight	57
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

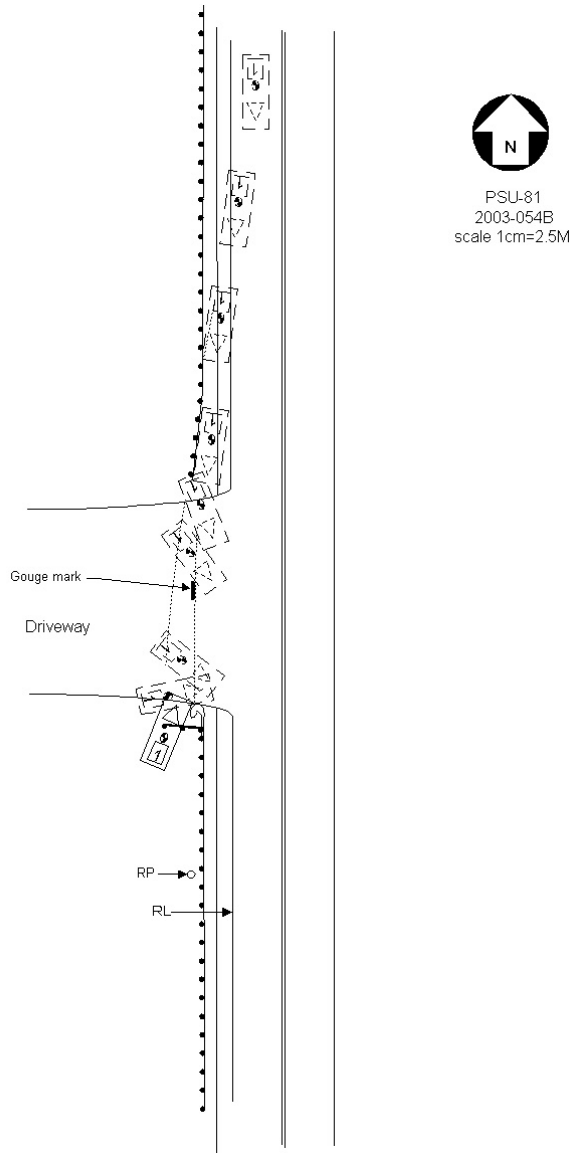
Occupant	2003-79-179-2-4
MAIS	5=Critical
Seat Position	Second right

AIS Level	Injury Description	Contacts
4=Severe	Basilar skull fracture, open, with brain tissue loss.	Right interior
5=Critical	Brain stem hemorrhage	Right interior
3=Serious	Femur fracture NFS	Right interior
2=Moderate	Clavicle fracture	Right interior
1=Minor	Neck skin contusion (hematoma)	Right interior
1=Minor	Upper extremity skin abrasion	Right interior
1=Minor	Upper extremity skin contusion	Right interior
1=Minor	Leg skin abrasion	Right interior
1=Minor	Leg skin contusion (hematoma)	Right interior

32 Case 2003-81-54

Summary:

Vehicle #1 a 1990 Dodge Dynasty was traveling southbound on a two-way two lane undivided rural roadway. For unknown reasons vehicle crossed right fog line and impacted a section of guardrail with the right front corner of the vehicle, upon separation from the first section of guardrail the vehicle rotated counter clockwise and crossed a private driveway. The vehicle then impacted a second section of guardrail with the passenger side of the vehicle and the guardrail severely intruded into the vehicle and impacted the driver. The vehicle was towed due to damage. The driver died several hours later with brain hemorrhages and multiple hip and leg trauma.)



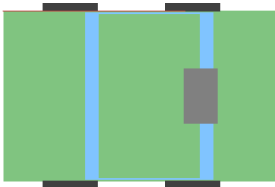
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Dodge	Dynasty	1990	1	19	FEMALE-NOT PREG	5=Critical

Occupant: 2003-81-54-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	999
Total, Longitudal, and Lateral δV	999 999 999
Est. δV with sequence number	SEVERE 2
CDC	1 R Y A W 8
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	Other BARRIER
Object Contacted 2	Other BARRIER

NASS Weighting Factor

Weighting factor	21.714
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAWN
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	9
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Dodge Dynasty
Year	1990
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	136

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	99
Pre-impact Stability	9
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	19	Height	170	Weight	134
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOY UNDET
Airbag Deployment - 1 st Seat	BAG DEP DET UNK
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	2003-81-54-1-1
MAIS	5=Critical
Seat Position	Front left side

AIS Level	Injury Description	Contacts
5=Critical	Cerebral diffuse axonal injury	Right interior
5=Critical	Brain stem hemorrhage	Right interior
4=Severe	Cerebral subdural hematoma, small (<50ccs)	Right interior
3=Serious	Cerebral subarachnoid hemorrhage	Right interior
3=Serious	Cerebral subarachnoid hemorrhage	Right interior
4=Severe	Lung contusion, bilateral	Right interior
3=Serious	>3 rib fractures one side & <3 other side, with stable chest	Right interior
3=Serious	Bladder laceration without perforation (partial thickness)	Right interior
3=Serious	Pelvic fracture, open/displaced/comminuted	Right interior
3=Serious	Sacroiliac fracture	Right interior
2=Moderate	Pelvic fracture, closed	Right interior
1=Minor	Myocardial contusion, minor	Right interior
3=Serious	Femoral shaft fracture	Right interior
4=Severe	Traumatic leg amputation above the knee	Right interior
1=Minor	Scalp contusion	Right interior
1=Minor	297402	Right interior
1=Minor	297202	Right interior
1=Minor	297602	Right interior
1=Minor	Facial skin abrasion	Right interior
1=Minor	Facial skin laceration, minor	Right interior
1=Minor	Facial skin contusion	Right interior
1=Minor	Upper extremity skin contusion	Belt webb/buckle
1=Minor	Upper extremity skin contusion	Right interior
1=Minor	Thoracic skin contusion	Right interior
1=Minor	Thoracic skin abrasion	Right interior
1=Minor	Abdominal skin abrasion	Right interior
1=Minor	Upper extremity skin contusion	Air bag-DR side
1=Minor	Upper extremity skin abrasion	Air bag-DR side
1=Minor	Upper extremity skin abrasion	Right interior
1=Minor	Upper extremity skin laceration, minor	Right interior
1=Minor	Leg skin abrasion	Floor
1=Minor	Leg skin contusion (hematoma)	Floor
1=Minor	Upper extremity skin contusion	Knee pad

