





## Seat Belt Sign

- When properly worn, seat belts reduce death and serious injury.
- There are injury patterns associated with seatbelts, especially when **improperly** worn/positioned.
- Does the wheelchair cause the improper positioning of the seat belt?







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## Lower Belt Injuries

- Contusions and abrasions
- Bowel and mesentery injuries
- Organ injuries
- Chance fractures
- Bladder rupture







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## Shoulder Harness Injuries

- Carotid Dissection
- Clavicle fracture (watch for pnuemo)
- Rib Fractures
- Contusions and abrasions



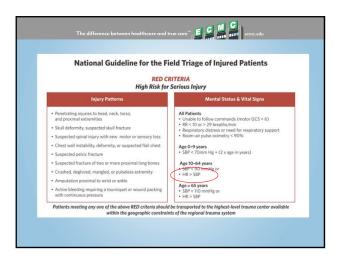




## **Triage/ Assessment Challenges**

- Various communication abilities or methods
- · Various levels of understanding
- · Different levels of physical ability
- Unknow medical hx and advance directives
- Staff not present, no "Info Binder"
  - Request a staff member from Day Hab or group homes





	LOW CRITERIA Risk for Serious Injury
Mechanism of Injury	EMS Judgment
Migh-Risk Auto Crash   Partial or complete ejection   Partial or complete ejection   20	Pregnancy > 20 weeks
	If concerned, take to a trauma center  IA WHO DO NOT MEET RED CRITERIA should be preferentially hin the aeographic constraints of the regional trauma system

Closest Rural	Patient	EMS Assessment	1st Hospital	Arrive at Rural Hospital	Arrive at Trauma Center	Level of care scene to hospital	Comments	
Hospital 18 min.	42 yo Female	abd/flank bruising and abrasions	Trauma	n/a	8:53	EMT-P	seat of wheelchair broken, wheels snapped off. Pt nonverbal	
Next hospital	43 Female	back pain	Rural	8:07:00 AM via	15:54	BLS	rear of bus, in WC secured to floor. Intellectual disabilities. Unable to provide name/age.	
Trauma Center	64 yo	abd pain w/ palp	Rural	unk time via vol fire	18:20	BLS		
48 minutes.	84 yo Female	head lac, eye swelling, N/V	Rural	8:31:00 AM via paid	16:07	BLS	unbelted bus aid found on floor between seats	
Rural Hosp to Trauma Center 54 minutes	59 yo Female	belt sign, shin abr., "brown substance in mouth" (hot cocoa per pt)	Rural	8:23:00 AM via paid fire	15:36	BLS	ambulatory, answers	HR=SBP
o4 minutes	22 yo Male	7	Rural	unk	15:49	7	Down's Syndrome. Uncooperative. Verbal but does not understand.	HR > SBF
	62 yo Male	2	Rural	unk	17:34	?	belted driver, syncope following chest pain	
	40 yo male	no injuries	Rural	8:20:00 AM via	n/a	BLS	Belted in bus seat only answers yes and no	

Patient	EMS Assessment	Injuries-final	LOS	Dispo	E C M C	
42 yo Female	abd/flank bruising and abrasions	abd contusions	0	d/c from ED	48 min drive time	seat of wheelchair broken wheels snapped off. Pt nonverbal
43 Female	back pain	L1-2 chance fx, sm	28 days	Rehab	Radiology misread QAPI issue at rural hosp. Multi complications. No VS on the PCR	rear of bus, in WC secured to floor. Intellectual disabilities. Unable to provide name/age.
64 yo Female	abd pain w/ palp	L rib fx 7-10	29 days	expired	PCR times messed up. Aspiration Pnuemonia, status seizures, withdrawal of care	
84 yo Female	head lac, eye swelling, N/V	orbit fxs, rib fx x2, ankle fx, scalp lac, zygomatic fx	11 days	sub acute rehab	unbelted bus aid found on floor between seats	
59 yo Female	belt sign, shin abr., "brown substance in mouth" (hot cocoa per pt)	pelvic wall hematoma	29 days	group home	HR = SBP	ambulatory, answers questions
22 yo Male		Bladder Rupture	34 days	home w/	Need PCR HR > S8P on transfer PCR	Down's Syndrome. Uncooperative. Verbal buildoes not understand.
62 yo Male		SDH, syncope, orbit fx, mult sinus fx, facial lac	2 days	home	Need PCR	belted driver, syncope following chest pain
40 yo male	none	unk	0	d/c from Rural ED	belted in a bus seat	only answers yes and no

		Arrive at Rural		scene to						
atient	Hospital	Hospital	Center	hospital	EMS Assessment	Injuries-final	LOS	Dispo	Comments	seat of wheelchair
i2 yo emale	Trauma	n/a	8:53	EMT-P	abd/flank bruising and abrasions	abd contusions	0	d/c from ED	48 min drive time	broken, wheels snapped off. Pt nonverbal
i3 Female	Rural	8:07:00 AM via paid amb	15:54	BLS	back pain	L1-2 chance fx, sm bowel inj	28 days	Rehab	Multi complications. No VS or the PCR	rear of bus, in WC secured to floor. Intellectual disabilities. Unable to provide name/age.
i4 yo Female	Rural	unk time via	18:20	BLS	abd pain w/ palp	L rib fx 7-10	29 days		PCR times messed up. Aspiration Pnuemonia, status seizures, withdrawal of care	
64 yo Female	Rural	8:31:00 AM	16:07	BLS	head lac, eye	orbit fxs, rib fx x2, ankle fx, scalp lac, zygomatic fx	11 days		unbelted bus aid found on floor between seats	
9 yo female	Rural	8:23:00 AM via paid fire	15:36	BLS	belt sign, shin abr., "brown substance in mouth" (hot cocoa per pt)	pelvic wall	29 days	group home	HR = SBP	ambulatory, answers questions
12 yo Male	Rural	unk	15:49			Bladder Rupture	34 days		Need PCR HR > SBP on transfer PCR	Down's Syndrome. Uncooperative. Verbal but does not understand.
52 yo Male	Rural	unk	17:34			SDH, syncope, orbit fx, mult sinus fx, facial lac	2 days	home	Need PCR	belted driver, syncope following chest pain
10 yo	Rural	8:20:00 AM via paid	n/a	BLS	none	unk		d/c from	belted in a bus seat	only answers yes and no