

# CIREN Near-Side Crashes Pelvic Injury

February 2011

# Criteria

- All researchable cases queried
- Rank 1 event to Right or Left vehicle plane
- Case occupant must be near-side to impact
- Minimum age is 16 years old

# Captured Population

- 876 CIREN near-side occupants
- 5,177 total AIS 2+ coded injuries
- 993 AIS2+ pelvic fractures coded (19% of total)
  - Pelvic ring fractures (AIS2-5) #872 / 88%
  - Sacro-iliac disruption #67 / 7%
  - Pubic symphysis diastasis #54 / 5%

Note – Sacral fractures are captured in the pelvic ring fracture group

# Populations

Category	All Near-Side (n=876)			Pelvic Near-Side (n=439)		
Female	52%			64%		
MY 1998 and newer	72%			66%		
Row 1 position	97%			98%		
Age (yrs) Distribution	16-40 53%	41-60 26%	61+ 21%	16-40 57%	41-60 23%	61+ 20%
Age (yrs) Mean	Min 16	Max 93	Avg 41	Min 16	Max 90	Avg 40
Fatal	15%			11%		
ISS	1-10 16%	11-20 27%	21+ 57%	1-10 12%	11-20 26%	21+ 62%
DV (kph)	Min-4	Max-108	Avg – 32.7	Min-4	Max-108	Avg-34.9

# Pelvic Injury Severity

- Pelvic injury ranking against all injury sustained
  - Ranked #1 – 13% of the time
  - Ranked #2 – 24%
  - Ranked #3 – 21%
  - Ranked #4 or higher – 42%

# Injury Sourcing

- 67% of all AIS2+ pelvic injuries are sourced to the near-side door or near-side door armrest.