

Crash Forensics

DOES A 5
MPH DELTA V
EQUATE TO
AN INJURY
POTENTIAL?

Speed and Injury Threshold



Dr. Jason Mazzarella Tel: 647-991-7246 E: drmazzarella@gmail.com

Certified in Motor Vehicle Crash Forensics

How did they determine 5 mph as the Injury Threshold.

4 primary studies point to this threshold. Studies by McConnell, Szabo and West. The problem is that these studies evaluated healthy male adults during controlled studies. Secondly, there was no long term follow-up. Lastly, most risk factors were excluded from the testing.

The problem.

The latest research in human volunteer crash testing has shown that injury (up to 39% tested) can occur in speeds as low as 2.5 mph. For a collision to result in structural damage to the vehicle the collision must be above 8-12 mph due to federal bumper standards.

For this reason, many times there will be no reconstruction evidence to determine a speed loss and thus injury potential.

The Solution:

Crash Forensics and Occupant Kinematic analysis in order to determine injury potential and correlate crash impairment.



Cost for Service

File Review: \$200.00

Crash Forensics Report: \$750 per hour