



## CMF / CRF Details

CMF ID: 2961

**Change number of lanes on minor road of a signalized T intersection (motorcycle crashes)**

**Description:** Change the number of turn lanes on the minor road of a signalized T intersection (effect on motorcycle crashes)

**Prior Condition:** *No Prior Condition(s)*

**Category:** Intersection geometry

**Study:** [Applying Bayesian Hierarchical Models to Examine Motorcycle Crashes at Signalized Intersections, Haque et al., 2010](#)

Star Quality Rating:



[\[View score details\]](#)

### Crash Modification Factor (CMF)

Value:

$$e^{0.548(Y-X)}$$

Adjusted Standard Error:

Unadjusted Standard Error:

### Crash Reduction Factor (CRF)

<b>Value:</b>	$100 * (1 - e^{0.548(Y-X)})$
<b>Adjusted Standard Error:</b>	
<b>Unadjusted Standard Error:</b>	

<b>Applicability</b>	
<b>Crash Type:</b>	All
<b>Crash Severity:</b>	All
<b>Roadway Types:</b>	Not Specified
<b>Number of Lanes:</b>	
<b>Road Division Type:</b>	
<b>Speed Limit:</b>	
<b>Area Type:</b>	Urban
<b>Traffic Volume:</b>	
<b>Time of Day:</b>	All

<b><i>If countermeasure is intersection-based</i></b>	
<b>Intersection Type:</b>	Not specified
<b>Intersection Geometry:</b>	3-leg
<b>Traffic Control:</b>	Signalized
<b>Major Road Traffic Volume:</b>	4800 to 30270 Annual Average Daily Traffic (AADT)
<b>Minor Road Traffic Volume:</b>	2550 to 25010 Annual Average Daily Traffic (AADT)

**Development Details**

<b>Date Range of Data Used:</b>	2003 to 2006
<b>Municipality:</b>	
<b>State:</b>	
<b>Country:</b>	Singapore
<b>Type of Methodology Used:</b>	7
<b>Sample Size Used:</b>	400 Crashes

<b>Other Details</b>	
<b>Included in Highway Safety Manual?</b>	No
<b>Date Added to Clearinghouse:</b>	Mar-21-2011
<b>Comments:</b>	Only motorcycle related crashes

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