



## CMF / CRF Details

**CMF ID: 2958**

**Install uncontrolled left-turn lane on major road of a signalized T intersection (motorcycle crashes)**

**Description: Install uncontrolled left-turn lane on the major 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:** 1.4

**Adjusted Standard Error:**

**Unadjusted Standard Error:**

### Crash Reduction Factor (CRF)

**Value:** -40 (This value indicates an **increase** in crashes)

**Adjusted Standard Error:**

**Unadjusted Standard Error:**

### Applicability

**Crash Type:**

All

**Crash Severity:**

All

**Roadway Types:**

Not Specified

**Number of Lanes:**

**Road Division Type:**

**Speed Limit:**

**Area Type:**

Urban

**Traffic Volume:**

**Time of Day:**

All

### *If countermeasure is intersection-based*

**Intersection Type:**

Not specified

**Intersection Geometry:**

3-leg

**Traffic Control:**

Signalized

**Major Road Traffic Volume:**

4800 to 30270 Annual Average Daily Traffic (AADT)

**Minor Road Traffic Volume:**

2550 to 25010 Annual Average Daily Traffic (AADT)

### Development Details

**Date Range of Data Used:**

2003 to 2006

**Municipality:**

<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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