



# CMF / CRF Details

CMF ID: 10853

Convert intersection to media U-turn (MUT) intersection

**Description:**

**Prior Condition:** Conventional Signalized Intersection

**Category:** Intersection geometry

**Study:** [Safety Evaluation of Median U-Turn Crossover-Based Intersections, Al-Omari et al., 2020](#)

Star Quality Rating:	
	5 Stars

Crash Modification Factor (CMF)	
Value:	0.7548
Adjusted Standard Error:	
Unadjusted Standard Error:	

Crash Reduction Factor (CRF)	
Value:	24.52 (This value indicates a <b>decrease</b> in crashes)
Adjusted Standard Error:	
Unadjusted Standard Error:	

## Applicability

<b>Crash Type:</b>	All
<b>Crash Severity:</b>	A (serious injury),B (minor injury),C (possible injury)
<b>Roadway Types:</b>	Not specified
<b>Number of Lanes:</b>	
<b>Road Division Type:</b>	Divided by Median
<b>Speed Limit:</b>	
<b>Area Type:</b>	Urban and suburban
<b>Traffic Volume:</b>	
<b>Time of Day:</b>	All

### *If countermeasure is intersection-based*

<b>Intersection Type:</b>	Roadway/roadway (not interchange related)
<b>Intersection Geometry:</b>	4-leg
<b>Traffic Control:</b>	Signalized
<b>Major Road Traffic Volume:</b>	25512 to 85076 Annual Average Daily Traffic (AADT)
<b>Minor Road Traffic Volume:</b>	246 to 37958 Annual Average Daily Traffic (AADT)

## Development Details

<b>Date Range of Data Used:</b>	2008 to 2017
<b>Municipality:</b>	
<b>State:</b>	MI, NC, OH
<b>Country:</b>	
<b>Type of Methodology Used:</b>	7

<b>Sample Size Used:</b>	
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<b>Other Details</b>	
<b>Included in Highway Safety Manual?</b>	No
<b>Date Added to Clearinghouse:</b>	Jul-01-2021
<b>Comments:</b>	This CMF is for Type A MUT Intersection. A pictorial representation of Type A and Type B MUT Intersection is presented in Figure 2 in the paper.

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