# Motor Vehicle Injury in Children 0 to 4 Year Old: Problem Analysis Diagram

## Social/Economic/Policy Level

**Social Issues**
- Low literacy
- Poverty

**Policy**
- Lack of regulations requiring vehicle/Child Safety Seat (CSS) compatibility
- Lack of requirement for universal seat anchors

**Health Care**
- Disparities in education & training programs
- Disparities in emergency medical & trauma services

**Safety**
- Inconsistent enforcement of speed laws, of CSS laws, impaired driving laws, seatbelt law

**Environment**
- Poor highway maintenance
- Poor road design
- Poor treatment of weather hazards

## Family/Community/Institutional Level

**Family/Home**
- Unwilling to restrain child in CSS
- Prioritizing purchase of CSS low due to other financial priorities
- Inappropriate fit between CSS & car
- Limited literacy & English language literacy

**Parental Knowledge/Attitude**
- Indifference to threat of crash, injury, or penalty
- Low perceived threat of penalty for non-compliance with CSS
- Limited knowledge: about requirements for CSS use; proper installation, proper age range usage, inconsistent usage, consequences of non-use, & need for car/infant seat compatibility
- Difficult to interpret installation & use instructions for CSS

## Individual Level

**Physical**
- Driver physical conditions that affect sensing & responding vision, hearing, or balance, deficits, orthopedic conditions, neurologic conditions
- Child physical conditions that affect susceptibility to injury
- Child resistance to proper CSS usage

**Health Behaviors**
- Driver distractions: phone usage, texting, navigation tools, radio sound system operation
- Driver impairment: sleep deprivation, fatigue, illicit substance abuse, use of prescribed medications that can affect driving
- Child safety seat not installed properly; Child not strapped properly in safety seat

## Target Outcome(s):

Motor Vehicle Crash Injury in Children 0 to 4 Years Old

## Consequences:

Death; Permanent Disabilities; Hospitalization; Emergency Department Visits; Poor Quality of Life; Stress

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