

Overcoming Barriers to International Collaboration & Transferability

Addressing Research/Technical Issues

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Research/Technical Issues

- Maximizing transferability of CMFs:
 - Issues
 - Research protocols
 - Study approaches
- Information for decision-makers
- Assessing existing CMFs

Research/Technical Issues

- Data issues
- Statistical Rigor
- Aggregating Results from Multiple Studies
- Regional Differences
- Documentation

Data Issues

- Data sets available
- Making more data available
- Sample sizes sufficient

Statistical Rigor (Frank Gross)

- Before-after
 - Comparison group
 - Empirical Bayes
 - Full Bayes
- Cross-sectional
- Case-control
- Cohort
- Alternative methods

Aggregating Results from Multiple Studies (Rune Elvik)

- Which studies to include
- Weighting data by precision
- Weighted regression analysis
- Fit a summary function to the data
- Aggregate data points

Regional Differences

- Crash reporting variations
- Definition of sample size
- Vehicle fleets vary
- Cultural influences

Documentation

- Circumstances under which CMFs were developed
 - Safety condition before countermeasure
 - Full description of what was implemented
 - Roadway characteristics
 - Statistical analysis performed

Questions

- How should we deal with multiple treatments?
- How can we test the transferability of CMF's?
- How might we calibrate CMF's across developed and developing countries?
- How robust must a study be to be acceptable?

Summary

- A lot of work is needed
- Best use of limited research dollars
- How to maximize the international application of research results
- How can we overcome the barriers that have been discussed?