

Effectiveness of road safety interventions: An Evidence & Gap Map

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Evidence & Gap Maps (EGM)

- EGMs are systematic and visual presentations of the availability of rigorous evidence for a particular policy domain
- An EGM is a matrix of intervention categories (rows) and outcome domain (columns)
- Evidence and gap maps:
 - Have a pre-specified protocol
 - Have a systematic search strategy
 - Have clear inclusion and exclusion criteria which are systematically applied
 - Systematically report all eligible studies
- Purpose:
 - high quality evidence to inform programme development
 - tell users where there is no high quality evidence
 - Identify gaps for new studies for researchers and research commissioners

EGM – Effectiveness of Road Safety Interventions

- All studies except car design interventions associated with safety of vehicle occupants
- Only studies reporting results of interventions included. Risk factors excluded
- Categories of interventions
 - Human factors
 - Vehicle factors
 - Roads and infrastructure
 - Post-crash & pre-hospital care
 - Legal and institutional framework

EGM – Effectiveness of Road Safety Interventions

Outcomes

- **1. Primary Outcomes**
 - **a. Fatal crashes**
 - **b. Non-fatal injury crashes**

- **2. Intermediate Outcomes - Safe road-use practices**
 - **a. Change in use of seat belts**
 - **b. Change in use of helmets**
 - **c. Change in Speed**
 - **d. Change in Drug/Alcohol use**

Database

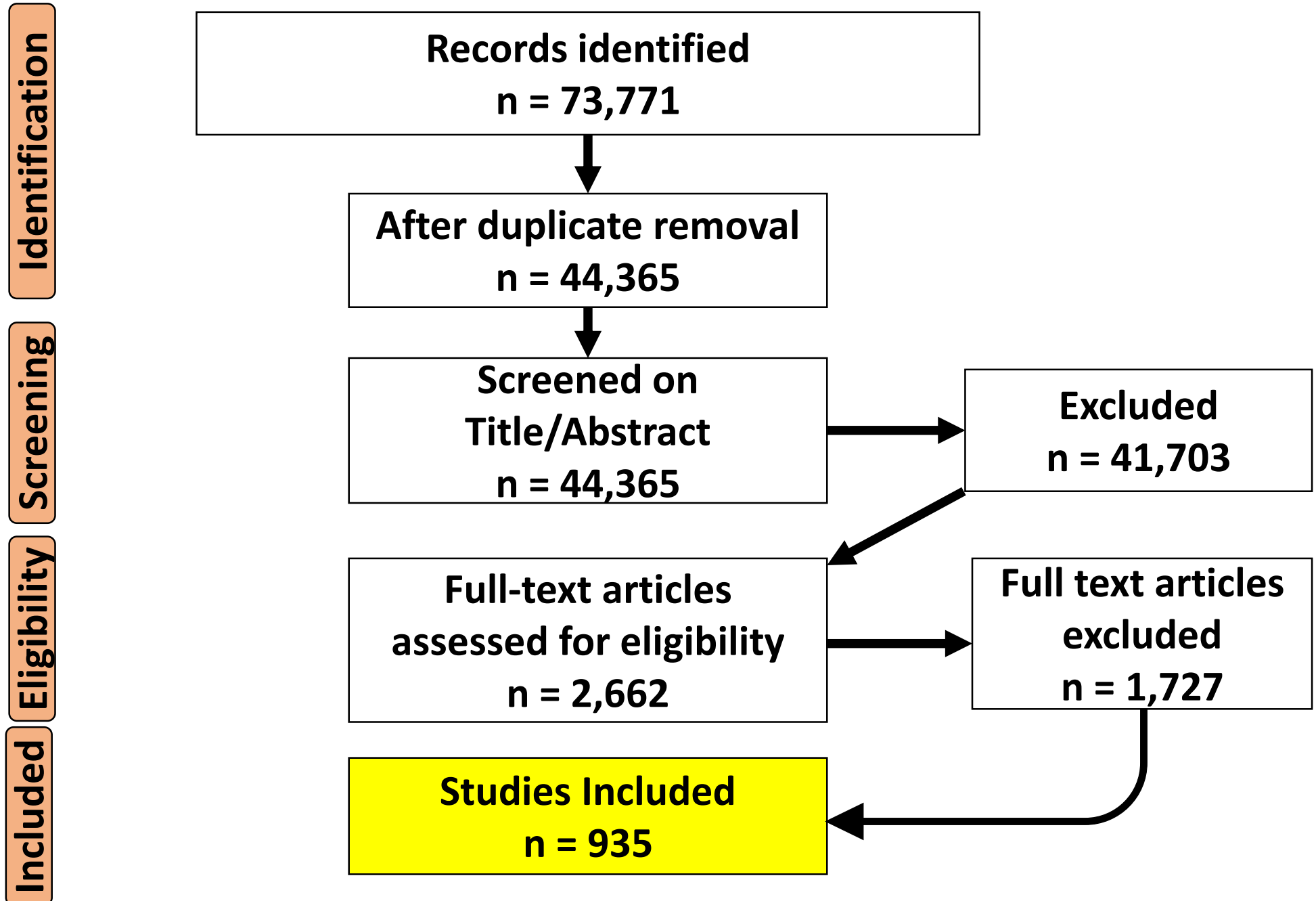
SafetyLit

- ~3,000 current scholarly journals from PubMed
- 1,229 scholarly journal websites that are not indexed in PubMed
- Keyword searches of PubMed and Google Scholar
- Current and backfile articles from 14,523 active scholarly journals and from the backfiles of 3,935 "inactive" journals.
- Citation information for almost 25,000 doctoral theses, conference proceedings, reports from government agencies and research groups, books and book chapters citations.

Next stage

- Grey literature & other sources
- Back search of included studies in systematic reviews

PRISMA



Preliminary Results
Road Safety EGM