04 | **INTEGRATED INFORMATION SYSTEM FOR SOLVING TRAFFIC ACCIDENTS AND PREVENTION AT BAN PHAI DISTRICT, KHON KAEN, THAILAND**

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Background Traffic accident has been a major cause of death and injuries at Ban Phai district, Khon Kaen and the incidence has shown an increasing trend. Accidents and injuries were collected and reported separately by each responsible agency. Case investigations for causes of accident were overlook.

Aims/Objectives/Purpose To manage traffic accident data and solve problems by using an integrated data management approach by an interdisciplinary team.

Methods A multidisciplinary team consists of representatives of the hospital, the police station, public transportation, the highway department and local volunteer rescue team was formed. The team analysed all 55 fatal traffic accidents causing deaths and serious injuries that were documented at police station, district hospital and rescue team during August 2009–July 2010 which consists of various forms such as injury surveillance record, pictures and videos to identify causes and ways to prevent re-occurrence of traffic accidents case by case. Problem solving actions were identified and undertaken immediately as a result of a concerted effort of the team

Results/Outcomes Major causes of traffic accidents were miss-driving behaviour (72.73%), environmental (15.58%), roads (10.39%). Two major black spots on highway were identified and corrections were undertaken with participation of the community. Information was used to create awareness among the district authorities and local government office.

Significance/Contribution to the Field This project helped reduce traffic accidents by 25% and enhance community participation. Lessons learned can be extended to other districts.