Background

- 1. 35 000 children under 14 are injured from RTA annually in China, four out of 10 are pedestrians, 70% students walk to school
- 2. Speed increases 1 kilo, injury incidence increases 3%.
- 3. School zone speed limit is 30 kilo in China. However, it is often ignored by drivers.

Objectives Exploring a measure to enhance the speed limit signage visibility in school zone and could be used friendly by schools.

Methods

- Three schools in a community with a higher RTA incidence were identified.
- 2. The baseline of vehicle speed entering the school zone was recorded by observers, 30 min for each observation (morning, noon and afternoon), when children to and off school.
- 3. A movable intervention speed limit flashing light was developed to enhance the speed limit signage visibility and was set for 50 m seen by drivers before entering school zone.
- 4. Vehicle speed was recorded again with the intervention in the same way as the baseline.

Results

- 1. 2400 vehicles' speed was recorded in the baseline and with the intervention respectively.
- 2. The baseline shows 1431 vehicles over 30 kilo; among which 608 vehicles over 40 kilo.
- 3. The intervention shows 769 vehicles over 30 kilo, a 46.4% drop; among which 255 vehicles over 40 kilo, a 58.1% drop.

Conclusions

- Vehicle speed limit for the school zone could be controlled by enhancing speed limit signage visibility.
- 2. The intervention with a movable speed limit flashing light on-and-off school is practical for school use.

42 THROUGH FLASHING SPEED LIMIT SIGNAGE TO CONTROL VEHICLE SPEED LIMIT FOR ENTERING SCHOOL ZONE

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