Reducing socioeconomic inequalities in road traffic injuries: time for a policy agenda

The existence of differences in the impact of injuries among socioeconomic groups has been well documented, similarly to what is known for most health outcomes. For the case of paediatric injuries, as well as for domestic injuries, variables such as poverty, low socioeconomic position, less privileged social class, ethnic group, urban deprivation, low educational level, and unfavourable family context have shown to be associated with a higher risk of injury morbidity and mortality.

This relation has been less explored for the case of road traffic injuries (RTIs), especially as regards young people. This is most important when keeping in mind the highly negative prospects regarding the expected health impact of RTIs in the world, predicted to be the second leading cause of years of life lost and the third leading cause of disability adjusted life years in 2020. Moreover, little evidence is available when looking at the impact of socioeconomic inequalities among the different modes of transportation. This is especially relevant, because the last quarter of the 20th century has seen a large increase in the diversity of transportation modes, especially two wheel motor vehicles, such as mopeds and motorcycles.

A paper by Hasselberg et al in this issue provides new evidence on the existence of substantial differences in RTIs during childhood and youth between socioeconomic groups in the Swedish population. Such differences are present as much among pedestrians as among cyclists, moped riders, motorcyclists and car drivers, and except for cyclists, the differences remain after taking into account gender. Moreover, the authors most pertinently estimate that population attributable risks—that is, the percentage reductions in the overall injury rates that would have occurred if all persons experienced the rates of the highest socioeconomic group—would be of more than one third for motorcyclists and car drivers and of one quarter for moped users.

Whether such socioeconomic gaps reflect differences in exposure to traffic, in risk factors or in the severity of the outcome, remains to be clarified. Still, these results underscore the need to consider socioeconomic inequities when designing policy interventions in the field of RTI prevention. Such an approach is generally lacking in most policy formulations. A review of some of the key documents in this field shows that, in most instances, no references are made to the non-random distribution of road injuries among social groups; consequently, little effort is devoted to intervention strategies aiming at the reduction of these unfavourable social differentials.

In the area of motor vehicle injury prevention, the Had- don matrix approach allows for the identification of pre-crash preventive strategies aimed at the individual, such as educational materials and programmes with culturally and linguistically appropriate messages for the specific audiences for whom they are intended—that is, socioeconomically disadvantaged groups. Similarly, interventions on the physical environment, such as traffic calming and pedestrian protection initiatives, should take into consideration geographical areas and communities where crashes involving the least favoured population groups are more prevalent. As regards factors of the social environment, strategies such as the promotion of community development to increase the ability of socially deprived groups to work together to identify and take action around RTI priorities, participating on decision making in issues like urban renewal and public transportation, should also be considered. Finally, post-crash strategies should include improving access to emergency and acute care and to rehabilitation services to the whole population, aiming at the reduction of differences in the observed health outcomes among socioeconomic groups.
In addition, it is advisable to keep a global view of the issue of inequalities in RTIs. This requires the acknowledgement of the concept of “sustainable development”, which reminds us that economic development puts pressure on scarce resources, such as energy. As the transfer of existing patterns of car use among Western countries to all people in developing countries is increasingly a burden to global sustainability, more emphasis needs to be placed on health policies promoting high quality public transportation, as well as on the encouragement of walking and cycling as alternatives to car and motorcycle riding.89

In other words, curbing the differential impact of RTIs among socioeconomic groups requires a broader use of a set of tools and steps that are available, although researchers and policy makers need to further pursue their efforts in their formulation and use. Otherwise, we are faced with the risk of applying public health strategies in an undiscriminating manner, therefore promoting some form of “socially iatrogenic” policy resulting in a potential enlargement in the negative gap in the health status among socioeconomic groups. In the same way that car and motorcycle makers have been taking great effort in tailoring the sales campaigns of their products to specific social and age subgroups of the population, it is time for the public health community at large to tackle socioeconomic inequities in RTIs in a more systematic and effective way. Although it is generally accepted that the benefits of road transportation are widespread among social groups, it should be none the less a priority to ensure that its resulting risks for health are also evenly distributed in the society.

ANTONI PLASÈNCIA
Institut Municipal de Salut Pública, Barcelona, and Universitat Autònoma de Barcelona, Spain

CARME BORRELL
Institut Municipal de Salut Pública, Barcelona, Spain

Correspondence to: Dr Plasència, Institut Municipal de Salut Pública Barcelona, Lesseps 1, 08023 Barcelona, Spain (aplasenc@imsb.bcn.es)