

Economic costs of motorcycle injury among crash-involved commercial motorcyclists in Oyo State, Nigeria

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Abstract

Objective: This study presents the costs of injury from road crashes sustained by commercial motorcyclists in Oyo state, Nigeria.

Methods: A cross-sectional survey of 373 commercial motorcyclists selected using a multi-stage sampling technique was conducted. Information on injury costs for 44 (11.8%) of them who were reportedly involved in a road crash in the 12-month preceding the survey are presented.

Results: The mean age of the 44 crash-involved motorcyclists was 33.6 ± 9.1 years. Daily income ranged from N300.00 (\$2.31) – N1, 500.00 (\$11.54). Thirty-three (75.0%) of those involved in crashes sustained injuries and 7 (21.2%) of them were admitted. Common injuries sustained were bruises (75.8%), fractures (12.1%), cuts (6.1%) and burns (6.1%). Median number of days away from work was 14 (range: 1 – 150). Median number of days on admission was 60 (range 7 - 90). The median cost of treatment was N2, 000.00 (\$15.38), range: N20.00 (about 16 cents) - N25, 000.00 (\$192.31) and this was paid by the injured motorcyclist alone in about 47% of cases. Median productivity costs lost was N7, 000.00 (\$ 53.85), range N300 (\$2.31) – N72, 000.00 (\$553.85).

Conclusion: The study showed that the costs of injuries were considerable. Efforts to prevent road crashes must be intensified to reduce the ensuing economic losses.

Keywords: *Injury costs, Road crash, Commercial motorcyclists, Nigeria*

Résumé

L'étude présente les couts des blessures soutenues lors des accidents routiers des motocyclistes commerciaux à dans l'état Oyo, Nigeria. Trois cent soixante treize (373) motocyclistes commerciaux étaient sélectionnés par un technique multistage. L'information sur les couts des blessures chez 44 (11.8%) des cas rapportés sur les accidents routiers dans les derniers 12 mois de cette étude. La moyenne d'âge des 44 cas d'accidents des motocyclistes était de 33.6 ± 9.1 ans. La recette journalière variant entre N300.00 (\$2.31) – N1, 500.00 (\$11.54). Trente-trois (75.0%) des accidents avaient des blessures et 7 (21.2%) étaient hospitalisés. Les blessures communes étaient des écorchures (75.8%), fractures (12.1%), coupures (6.1%) et brulures (6.1%). Le nombre de jours médiane hors du service était de 14 (Intervalle: 1 – 150). La durée d'admission médiane était de 60 (intervalle de 7 - 90). Le cout médian de traitement était de N2, 000.00 (\$15.38), intervalle: N20.00 (environ 16 cents) - N25, 000.00 (\$192.31) et ce cout était payé par le motocycliste blessé seul chez presque 47% des cas. La perte de la productivité était de N7, 000.00 (\$ 53.85), variant de N300 (\$2.31) – N72, 000.00 (\$553.85). Cette étude montre que les couts des blessures étaient considérables. Les efforts de prévention des accidents routiers doivent être intensifiés afin de réduire les Lourdes pertes économiques.

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