

Editorial: Understanding age and sex-related differences in the biomechanics of road traffic associated injuries through population diversity analyses

F.J. López Valdés; S. Duprey; J.L. Forman; M. Y. Svensson

Abstract-

The goal of this Research Topic is to highlight how biomechanical differences between population groups are identified and eventually incorporated into the design of effective safety systems capable of preventing injuries for all road users. To that end, the current Research Topic offers insights into the use of computer models to investigate the performance of existing and newly proposed injury criteria capable of capturing individual differences related to age and sex variations. It also provides new experimental data that can be used in the development of more accurate physical and computational surrogates. And, finally, the collection includes information about the development of a new physical crash test dummy intended to improve the protection of female occupants in rear impacts.

Index Terms- Road traffic injuries (RTI), Population diversity, impact biomechanics, Biofidelity, Human body model (HBM)

Due to copyright restriction we cannot distribute this content on the web. However, clicking on the next link, authors will be able to distribute to you the full version of the paper:

[Request full paper to the authors](#)

If your institution has an electronic subscription to Frontiers in Bioengineering and Biotechnology, you can download the paper from the journal website:

[Access to the Journal website](#)

Citation:

López-Valdés, F.J.; Duprey, S.; Forman, J.L.; Svensson, M.Y. "Editorial: Understanding age and sex-related differences in the biomechanics of road traffic associated injuries through population diversity analyses", Frontiers in Bioengineering and Biotechnology, vol.10, pp.869356-1-869356-3, .