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

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

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