

The process of making or enacting laws.

Electrically Assisted [Pedal Cycles](#) (EAPCs) are pedal bikes that are fitted with a [motor](#) that travel at higher speeds than conventional [bicycles](#). Recent international [data](#) shows that there is an association with increased severity of [injury](#), particularly in paediatric populations. Currently, EAPCs are subject to the same [legislation](#) regarding [helmet](#) use as pedal bikes in the UK and EU which does not mandate the use of a [helmet](#).

Trichinopoly Krishna et al. examined [safety](#) concerns surrounding EAPCs in the context of existing EU and UK [legislation](#) to assess whether changes to these should be made by public health bodies to mitigate the increased risk of [injury](#).

A [retrospective](#) international [literature review](#) looking at electric [bicycle](#)-related [trauma](#) and legislation was conducted using a systematic [search](#) of internet [databases](#). Peer-reviewed articles and online resources were reviewed based on relevance to the above objective.

EAPCS can travel at up to 17.5 mph, resulting in higher speeds of travel and collision. The use of EAPCs has been associated with increased severity of [head injury](#). Bicycle helmets have been shown to reduce the severity of head injury in accidents involving both EAPCs and pedal cycles. Healthcare providers should pay extra attention to the possibility of severe injuries when a patient had a bicycle accident with an EAPC, especially in paediatric populations.

Given that EAPCS have been associated internationally with increased severity of head injuries they propose that existing EU and UK legislation may not be fit for purpose with respects to increased EAPC usage and criteria for impact protection of existing helmets. Further research and audit with more accurate recording of data associated with EAPCs use and associated injuries would inform enhanced regulation regarding EAPC usage in the future ¹⁾.

Reid DBC, Patel SA, Shah KN, Shapiro BH, Ruddell JH, Akelman E, Palumbo MA, Daniels AH. [Opioid-Limiting Legislation](#) Associated with Decreased 30-Day Opioid Utilization Following [Anterior Cervical Decompression and Fusion](#). Spine J. 2019 Sep 2. pii: S1529-9430(19)30960-X. doi: 10.1016/j.spinee.2019.08.014. [Epub ahead of print] PubMed PMID: 31487559.

¹⁾
Trichinopoly Krishna S, Roberts S, Dardis R. Electrically assisted pedal cycles: is new legislation required to mitigate increased head injury risk? Br J Neurosurg. 2021 Jun 26;1-4. doi: 10.1080/02688697.2021.1940846. Epub ahead of print. PMID: 34180330.

From:
<https://neurosurgerywiki.com/wiki/> - **Neurosurgery Wiki**

Permanent link:
<https://neurosurgerywiki.com/wiki/doku.php?id=legislation>

Last update: **2024/06/07 02:56**

