

E-bike injuries in the United States, 2019-2025

National estimates of emergency department (ED) visits, from the US Consumer Product Safety Commission's National Electronic Injury Surveillance System (NEISS)

101,600

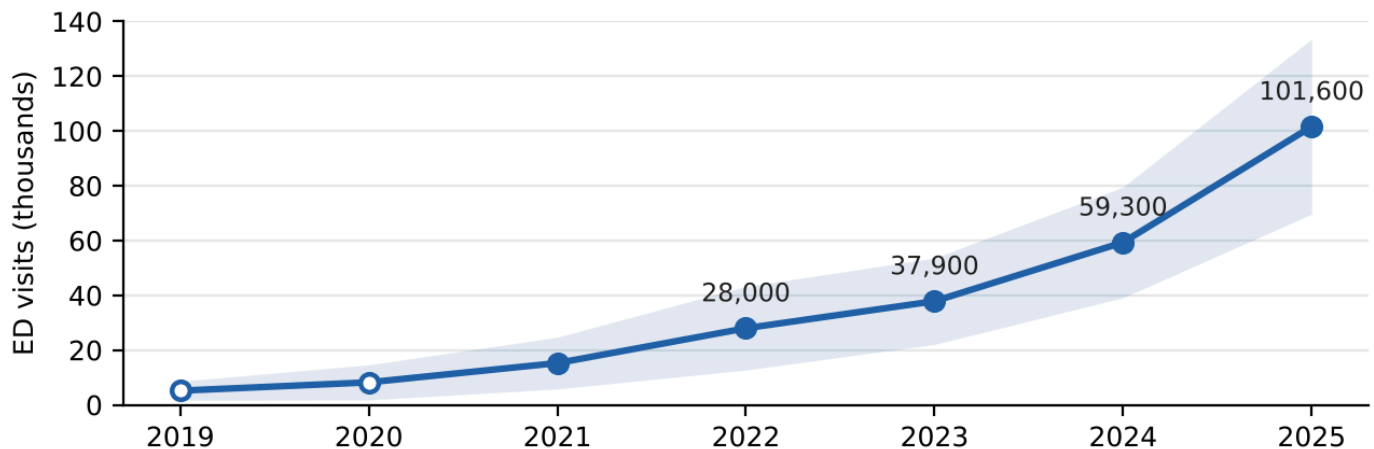
estimated ED visits for e-bike injuries in 2025 (95% CI 69,700–133,600)

+71%

increase from 2024 (59,300 visits)

3.6×

the 2022 level (28,000 visits)



Estimated US ED visits for e-bike injuries, with 95% confidence bands. Hollow points (2019–2020) are estimates CPSC would consider potentially unstable.

Who is injured and how (2024–2025 combined)

- **Mostly men:** about 79% of injured riders were male (95% CI 76–82%).
- **Head and face:** about 31% of injuries were to the head or face (95% CI 28–34%).
- **Broken bones:** fractures were the most common diagnosis, about 29% of visits (95% CI 26–31%).
- **Hospital stays:** about 1 in 6 visits (17%; 95% CI 12–23%) ended in admission, transfer or an observation stay; for bicycle injuries the share was 14% (95% CI 10–17%).
- **Older riders:** visits among adults 65 and older rose from about 3,200 in 2022 to 9,700 in 2025.

Is the rise just a change in coding? No. CPSC gave e-bikes their own product code in 2024, and both 2024 and 2025 use that code, so the 2024–2025 rise is not a coding effect. For 2019–2023, when e-bikes shared a code with mopeds, NEISS-AI reads the injury narratives so every year is counted the same way.

About these estimates

- NEISS is a national probability sample of about 100 US hospital EDs. Estimates use the survey weights and design, with 95% confidence intervals.
- NEISS-AI identifies e-bikes from product codes and the written injury narratives. National e-bike totals for 2022–2024 are within 5% of CPSC's published figures.
- **Limits:** these are counts of ED visits, not injury rates; the number of riders is not known. Only ED-treated injuries are included, and estimates are national, not state-level.

Cite as: Kumar S. NEISS-AI: AI-assisted national injury estimates from NEISS emergency department narratives. Version 1.4.0. Zenodo; 2026. <https://doi.org/10.5281/zenodo.23550272>

Explore the data and download tables: <https://subash28kumar.github.io/neiss-ai/> · Free and open source · Prepared by Subash Kumar, Independent Researcher, Ellicott City, Maryland. An independent project, not affiliated with or endorsed by CPSC.