

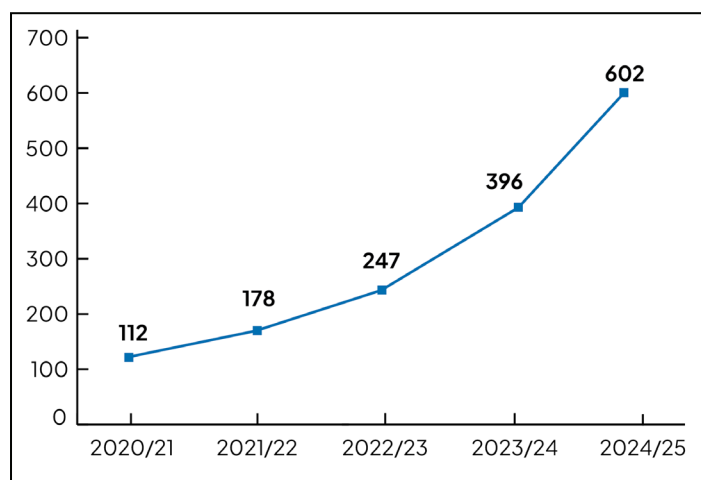
E-bike injuries

Unintentional presentations to emergency departments for e-bike injuries, Victoria, July 2020–June 2025

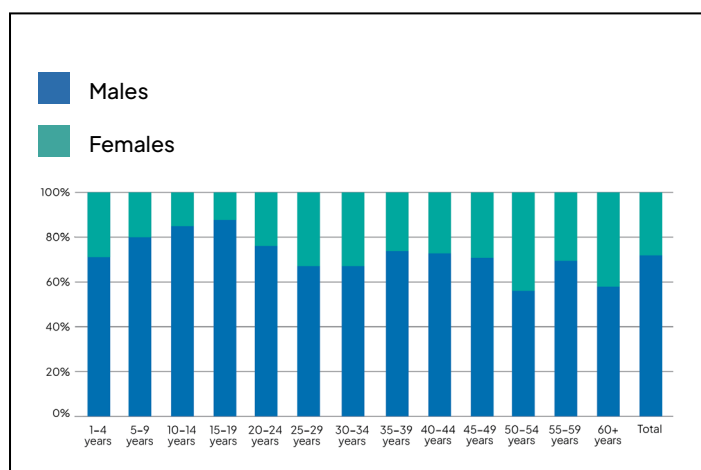
Case selection: Data were selected from the Victorian Emergency Minimum Dataset (VEMD). Records were extracted if the ‘Description of event’ text variable contained the terms ‘e bike’ or ‘e bicycle’ or ‘bike/bicycle/pushbike’ combined with the terms ‘electric/motorised’.

Return visits and pre-arranged admissions were excluded.

Trends in e-bike injuries in Victoria, 2020–2025



E-bike injuries by age group and sex, Victoria, 2020–2025



There were a total of 1,535 e-bike injury presentations during the five-year period. E-bike emergency presentations showed a large increase over the 5-year period, particularly in 2024/25 when injuries increased by 52% compared to the previous year.



52%

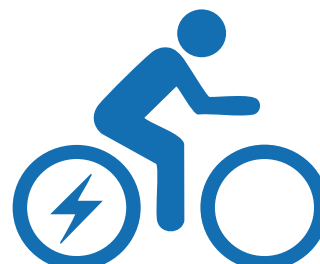
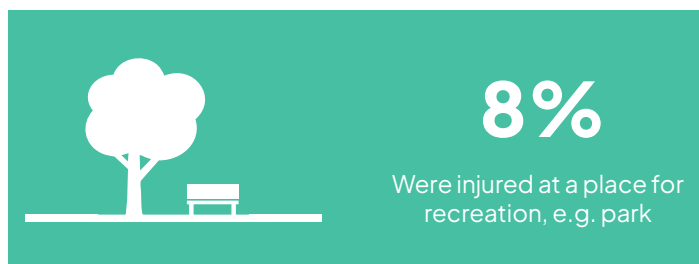
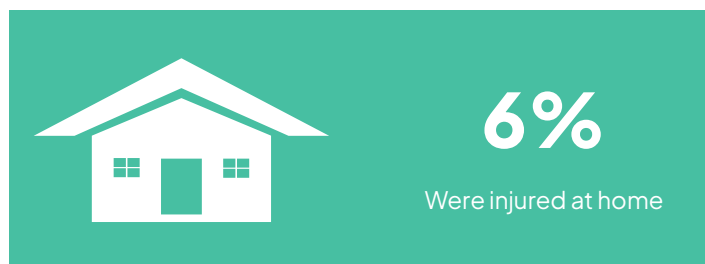
increase in 2024/25

Males were more common than females in each age group (73% of all cases).

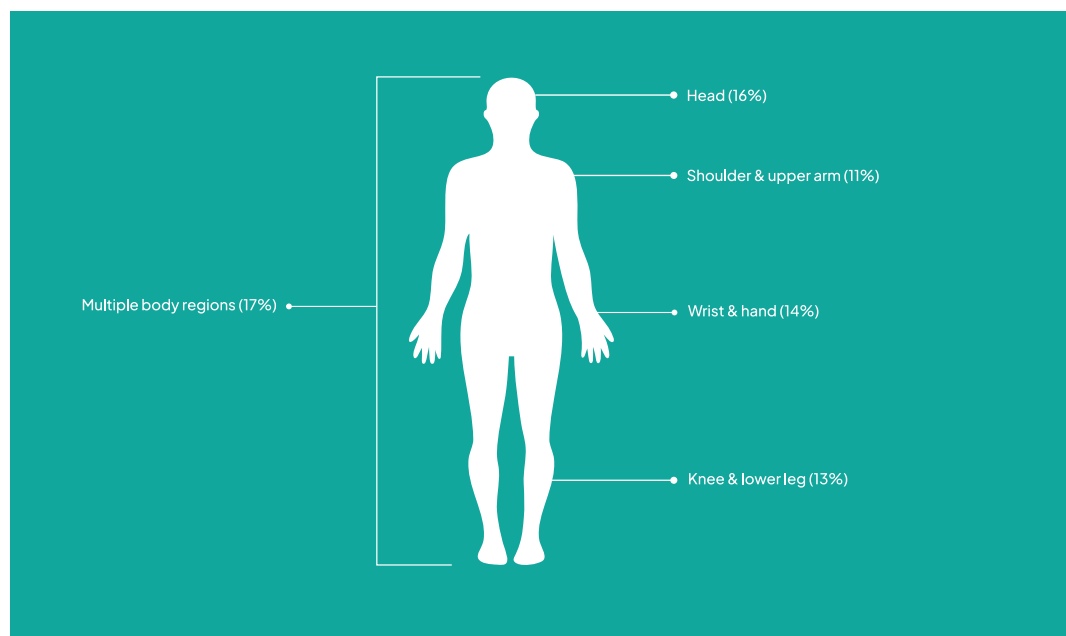
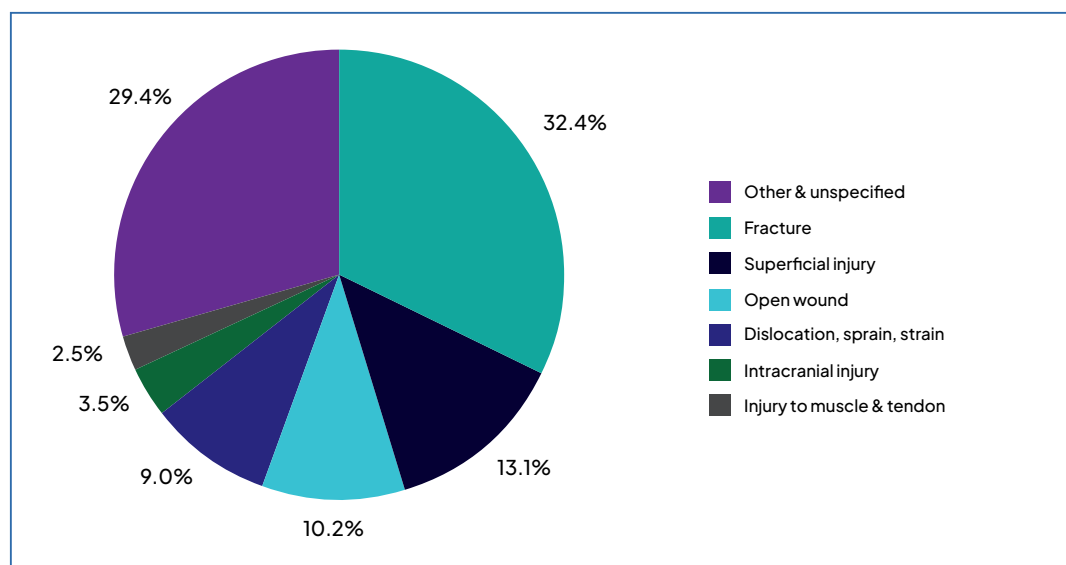
E-bike injury presentations were most common among 15–19 year olds (17%), followed by 10–14 and 20–24 year olds (10% for both).

Large increases in e-bike injury presentations occurred in 2024/25 among 10–14 year olds (from 27 in 2023/24 to 92 in 2024/25, a 241% increase). During the same period there was a 131% increase among 15–19 year olds (from 62 in 2023/24 to 143 in 2024/25).

Place of injury



Main injury types & body region of injury



Fractures accounted for nearly one third of e-bike injury presentations (32%). The main body region injured was the head (16%). Injuries to the wrist & hand, knee and lower leg and the shoulder & upper arm were also common. Multiple body regions were injured in 17% of e-bike injury presentations.

Mechanisms of e-bike injuries

69%

falling from an e-bike was the most common mechanism of injury.



15%

of cases involved the e-bike rider colliding with a car, truck or van.



5%

Of cases involved a collision with an object such as a pole, tree or the kerb.



A small number had collided with a pedal cycle or another e-bike (<1%) or with a pedestrian (<1%). Falling from an e-bike included going over the handlebars, or slipping/sliding off the bike.

Seriousness of e-bike injuries

EMERGENCY 



44%

Were triaged to urgent, treat within 30 minutes.

26%

Were triaged to emergency, treat within 10 minutes.

42%

of those presenting to emergency were admitted to hospital.



38%

of cases arrived by ambulance.



Funding

VISU is supported by the Victorian Government.

Data Sources

Data are derived from the Victorian Emergency Minimum Dataset (VEMD). The authors acknowledge the Victorian Department of Health as the source of VEMD data.

Further Information and Data Requests

For further information, publications, or to request data, contact VISU via the details below or visit the VISU website.

Suggested Citation

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