

Disclaimer

- I ride an e-scooter!!
 - With a helmet
- No other conflicts of interest to disclose



Background – Media



Lime e-scooter accident

Background – Literature



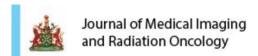


249 patients

Original Investigation | Emergency Medicine

Injuries Associated With Standing Electric Scooter Use

Tarak K. Trivedi, MD, MS: Charles Liu, MD: Anna Liza M. Antonio, DrPH: Natasha Wheaton, MD: Vanessa Kreger, MD, MPH: Anna Yap, MD: David Schriger, MD, MPH; Joann G. Elmore, MD, MPH



63 patients

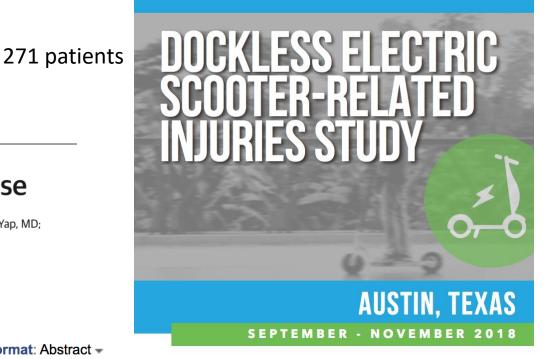
Impact of e-scooter injuries on Emergency Department imaging

Laura J Mayhew ⋈, Colleen Bergin

First published: 11 April 2019 | https://doi.org/10.1111/1754-9485.12889 | Citations: 1

LJ Mayhew MBChB; C Bergin MBChB, FRACR.

Conflict of interest: None.



Format: Abstract -

N Z Med J. 2019 Aug 30;132(1501):57-63.

21 patients

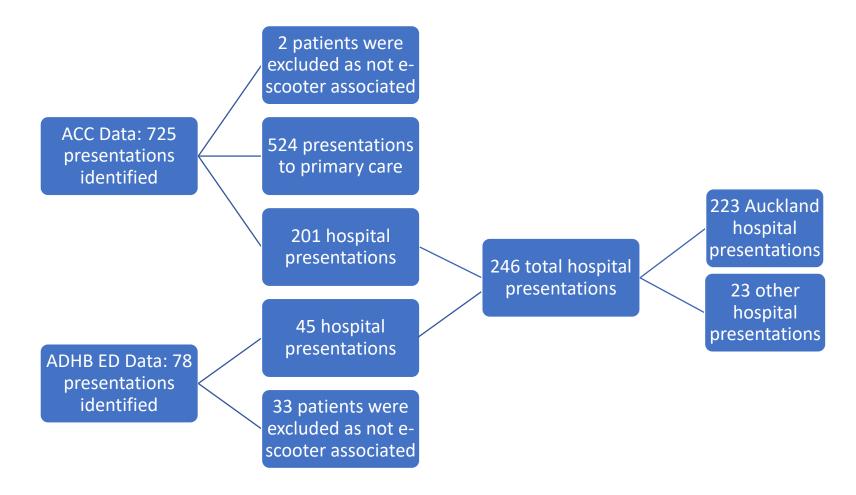
The cost of electric-scooter related orthopaedic surgery.

Campbell A¹, Wong N², Monk P³, Munro J³, Bahho Z⁴.

Author information

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- Senior Orthopaedic Registrar, Auckland City Hospital, Auckland.

Methodology



All eligible e-scooter injury patients identified by both ACC and Auckland Hospital ED

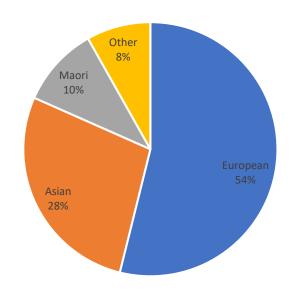
Demographics

70.0% 60.0% 50.0% 40.0% 20.0% 10.0%

33-48

Number of injured patients by Age Group

Ethnic Distribution of Patient Injuries

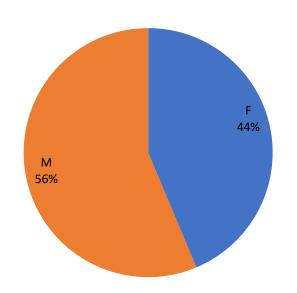


Gender Distribution

<18

18-33

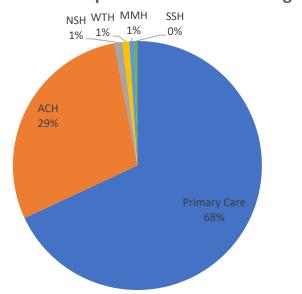
0.0%



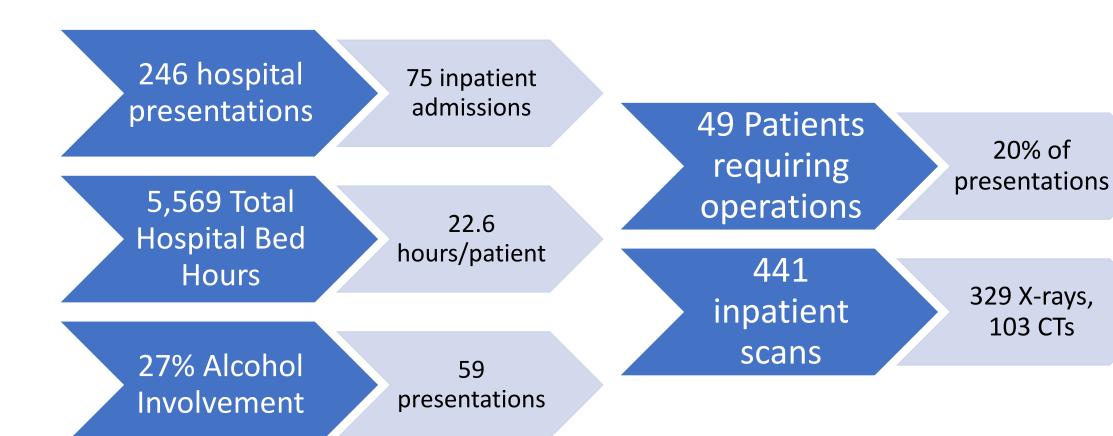
Distribution of Impact Across Auckland Region

63-78

48-63



Summary Results



20% of

329 X-rays,

103 CTs

Injury Location/Type

>35% of hospital presentations were Head and Neck injuries

26% were head injuries

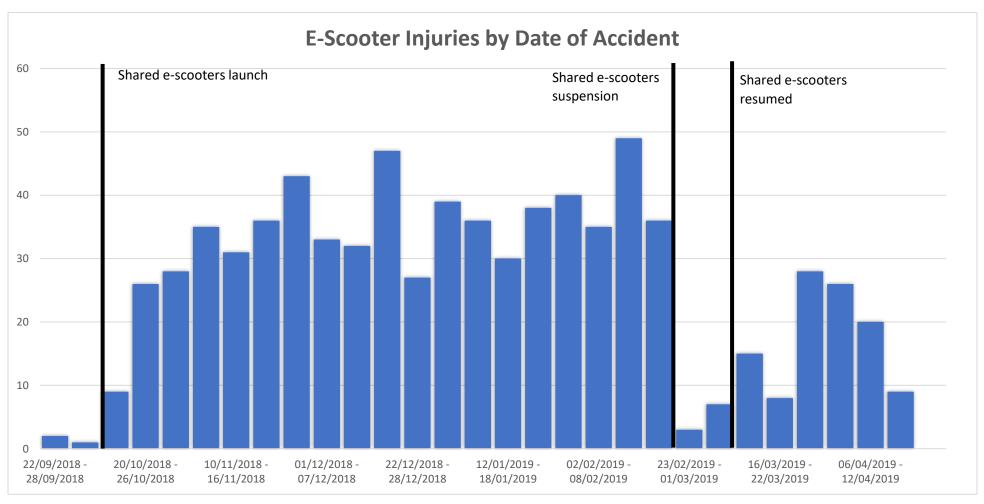
>75% of community presentations were upper and lower limb injuries

38.9% were lower limb injuries

>86% of injuries were as a result of loss of balance

1.3% were collisions

Timeline of Injuries



A timeline of e-scooter injuries per week in the Auckland region

Regional Costs

Auckland

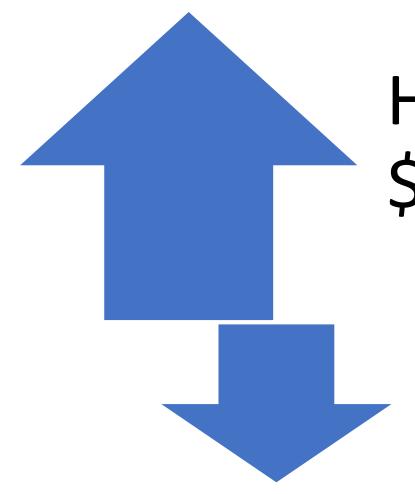
New Zealand

ACC: \$694,312

ADHB: \$608,843

Total: \$1,303,155 ACC: \$4M Total: ~\$8M

Cost Comparison



Healthcare costs: \$1,300/e-scooter

Council Licensing Fees:

\$5-35/e-scooter

Discussion



Helmets



Alcohol



Licensing Fees



Outpatient impact

Acknowledgements

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 - ED Whiteboard Data
- Unmesh J.N. ADHB Health Information and Technology Services
 - ADHB Cost Data
- ADHB Emergency Department
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