

Electric scooter and other micro-mobility devices

The American College of Surgeons Committee on Trauma, Atrium Health, UNC Highway Safety Research Center, and the Vision Zero San Francisco Injury Prevention Research Collaborative are proposing capture of electric scooters (e-scooters) as “pedestrian conveyances” (V00-V09), as they are closest in form and function to other types of transportation in which the rider is standing and maintains a high center of gravity (e.g. skateboard and rollerblades). Compared to motorcycle riders, e-scooter riders stand rather than sit, travel at lower speeds (15-20 MPH versus >30 MPH), and may operate their vehicles in a variety of spaces (sidewalks, bike lanes, streets versus in-street only). Additionally, at under 50 pounds, e-scooters are considered “ultralight” roadway devices and are not regulated as motorcycles by most transportation departments.

We feel that due to the widespread media attention surrounding injuries related to e-scooters and other micro-mobility devices (particularly in communities with rideshares), clinicians will be familiar with these devices and will, therefore, document their involvement in the clinical notes. Studies have identified e-scooter injuries using keywords (“e-scooter”, “Lime”, “Bird”, etc.) present in the medical record and/or in syndromic surveillance data (e.g. chief complaint and triage note). Medical coders are already experienced in correctly classifying a wide range of transportation-related injuries using information documented by clinicians. Accurate injury surveillance is critical to the successful development, implementation and evaluation of prevention initiatives. Urban transportation’s rapidly expanding micro-mobility movement and escalating competition between rideshare companies.

The American College of Surgeons Committee on Trauma, Atrium Health, UNC Highway Safety Research Center, and the Vision Zero San Francisco Injury Prevention Research Collaborative are requesting the following new ICD-10-CM External cause codes to differentiate injuries related to e-scooters and other ultralight micro-mobility devices from injuries related to other types of pedestrian conveyances.

TABULAR MODIFICATIONS

V00	Pedestrian conveyance accident
V00.0	Pedestrian on foot injured in collision with pedestrian conveyance
New subcategory	V00.03 Pedestrian on foot injured in collision with standing micro-mobility pedestrian conveyance
New code	V00.031 Pedestrian on foot injured in collision with rider of standing electric scooter
New code	V00.038 Pedestrian on foot injured in collision with rider of other standing micro-mobility pedestrian conveyance
Add	Pedestrian on foot injured in collision with rider of electric skateboard
Add	Pedestrian on foot injured in collision with rider of Hoverboard

V00.8 Accident on other pedestrian conveyance

New subcategory V00.84 Accident with standing micro-mobility pedestrian conveyance

New code V00.841 Fall from standing electric scooter

New code V00.842 Pedestrian on standing electric scooter colliding with stationary object

New code V00.848 Other accident with micro-mobility pedestrian conveyance

Add Accident with electric skateboard

Add Accident with hoverboard

V01 Pedestrian injured in collision with pedal cycle

V01.0 Pedestrian injured in collision with pedal cycle in nontraffic accident

New subcategory V01.03 Pedestrian on standing micro-mobility pedestrian conveyance injured in collision with pedal cycle in nontraffic accident

New code V00.031 Pedestrian on standing electric scooter injured in collision with pedal cycle in nontraffic accident

New code V00.038 Pedestrian on other standing micro-mobility pedestrian conveyance injured in collision with pedal cycle in nontraffic accident

Add Pedestrian on electric skateboard injured in collision with pedal cycle in nontraffic accident

Add Pedestrian on hoverboard injured in collision with pedal cycle in nontraffic accident

V01.1 Pedestrian injured in collision with pedal cycle in traffic accident

New subcategory V01.13 Pedestrian on standing micro-mobility pedestrian conveyance injured in collision with pedal cycle in traffic accident

New code V01.131 Pedestrian on standing electric scooter injured in collision with pedal cycle in traffic accident

New code V01.138 Pedestrian on other standing micro-mobility pedestrian conveyance injured in collision with pedal cycle in traffic accident

Add		Pedestrian on electric skateboard injured in collision with pedal cycle in traffic accident
Add		Pedestrian on hoverboard injured in collision with pedal cycle in traffic accident
	V01.9	Pedestrian injured in collision with pedal cycle, unspecified whether traffic or nontraffic accident
New subcategory	V01.93	Pedestrian on standing micro-mobility pedestrian conveyance injured in collision with pedal cycle, unspecified whether traffic or nontraffic accident
New code	V01.931	Pedestrian on standing electric scooter injured in collision with pedal cycle, unspecified whether traffic or nontraffic accident
New code	V01.938	Pedestrian on other standing micro-mobility pedestrian conveyance injured in collision with pedal cycle, unspecified whether traffic or nontraffic accident
Add		Pedestrian on electric skateboard injured in collision with pedal cycle, unspecified whether traffic or nontraffic accident
Add		Pedestrian on hoverboard injured in collision with pedal cycle, unspecified whether traffic or nontraffic accident
	V02	Pedestrian injured in collision with two- or three-wheeled motor vehicle
	V02.0	Pedestrian injured in collision with two- or three-wheeled motor vehicle in nontraffic accident
New subcategory	V02.03	Pedestrian on standing micro-mobility pedestrian conveyance injured in collision with two- or three-wheeled motor vehicle in nontraffic accident
New code	V02.031	Pedestrian on standing electric scooter injured in collision with two- or three-wheeled motor vehicle in nontraffic accident
New code	V02.038	Pedestrian on other standing micro-mobility pedestrian conveyance injured in collision with two- or three-wheeled motor vehicle in nontraffic accident
Add		Pedestrian on electric skateboard injured in collision with two- or three-wheeled motor vehicle in

nontraffic accident

Add Pedestrian on hoverboard injured in collision with two- or three wheeled motor vehicle in nontraffic accident

V02.1 Pedestrian injured in collision with two- or three-wheeled motor vehicle in traffic accident

New subcategory V02.13 Pedestrian on standing micro-mobility pedestrian conveyance injured in collision with two- or three-wheeled motor vehicle in traffic accident

New code V02.131 Pedestrian on standing electric scooter injured in collision with two- or three-wheeled motor vehicle in traffic accident

New code V02.138 Pedestrian on other standing micro-mobility pedestrian conveyance injured in collision with two- or three-wheeled motor vehicle in traffic accident

Add Pedestrian on electric skateboard injured in collision with two- or three-wheeled motor vehicle in traffic accident

Add Pedestrian on hoverboard injured in collision with two- or three wheeled motor vehicle in traffic accident

V02.9 Pedestrian injured in collision with two- or three-wheeled motor vehicle, unspecified whether traffic or nontraffic accident

New subcategory V02.93 Pedestrian on standing micro-mobility pedestrian conveyance injured in collision with two- or three-wheeled motor vehicle, unspecified whether traffic or nontraffic accident

New code V02.931 Pedestrian on standing electric scooter injured in collision with two- or three wheeled motor vehicle, unspecified whether traffic or nontraffic accident

New code V02.938 Pedestrian on other standing micro-mobility pedestrian conveyance injured in collision with two- or three wheeled motor vehicle, unspecified whether traffic or nontraffic accident

Add Pedestrian on electric skateboard injured in collision with two- or three wheeled motor vehicle,

Add	unspecified whether traffic or nontraffic accident Pedestrian on hoverboard injured in collision with two- three-wheeled motor vehicle, unspecified whether traffic or nontraffic accident
V03	Pedestrian injured in collision with car, pick-up truck or van
	V03.0 Pedestrian injured in collision with car, pick-up or van in nontraffic accident
New subcategory	V03.03 Pedestrian on standing micro-mobility pedestrian conveyance injured in collision with car, pick-up or van in nontraffic accident
New code	V03.031 Pedestrian on standing electric scooter injured in collision with car, pick-up or van in nontraffic accident
New code	V03.038 Pedestrian on other standing micro-mobility pedestrian conveyance injured in collision with car, pick-up or van in nontraffic accident
Add	Pedestrian on electric skateboard injured in collision with car, pick-up or van in nontraffic accident
Add	Pedestrian on hoverboard injured in collision with car, pick-up or van in nontraffic accident
	V03.1 Pedestrian injured in collision with car, pick-up or van in traffic accident
New subcategory	V03.13 Pedestrian on standing micro-mobility pedestrian conveyance injured in collision with car, pick-up or van in traffic accident
New code	V03.131 Pedestrian on standing electric scooter injured in collision with car, pick-up or van in traffic accident
New code	V03.138 Pedestrian on other standing micro-mobility pedestrian conveyance injured in collision with car, pick-up or van in traffic accident
Add	Pedestrian on electric skateboard injured in collision with car, pick-up or van in traffic accident
Add	Pedestrian on hoverboard injured in collision with car, pick-up or van in traffic accident
	V03.9 Pedestrian injured in collision with car, pick-up or van, unspecified whether traffic or nontraffic accident
New	

subcategory	V03.93	Pedestrian on standing micro-mobility pedestrian conveyance injured in collision with car, pick-up or van, unspecified whether traffic or nontraffic accident
New code	V03.931	Pedestrian on standing electric scooter injured in collision with car, pick-up or van, unspecified whether traffic or nontraffic accident
New code	V03.938	Pedestrian on other standing micro-mobility pedestrian conveyance injured in collision with car, pick-up or van, unspecified whether traffic or nontraffic accident
Add		Pedestrian on electric skateboard injured in collision with car, pick-up or van, unspecified whether traffic or nontraffic accident
Add		Pedestrian on hoverboard injured in collision with car, pick-up or van, unspecified whether traffic or nontraffic accident
V04 Pedestrian injured in collision with heavy transport vehicle or bus		
	V04.0	Pedestrian injured in collision with heavy transport vehicle or bus in nontraffic accident
New subcategory	V04.03	Pedestrian on standing micro-mobility pedestrian conveyance injured in collision with heavy transport vehicle or bus in nontraffic accident
New code	V04.031	Pedestrian on standing electric scooter injured in collision with heavy transport vehicle or bus in nontraffic accident
New code	V04.038	Pedestrian on other standing micro-mobility pedestrian conveyance injured in collision with heavy transport vehicle or bus in nontraffic accident
Add		Pedestrian on electric skateboard injured in collision with heavy transport vehicle or bus in nontraffic accident
Add		Pedestrian on hoverboard injured in collision with heavy transport vehicle or bus in nontraffic accident
	V04.1	Pedestrian injured in collision with heavy transport vehicle or bus in traffic accident
New subcategory	V04.13	Pedestrian on standing micro-mobility pedestrian conveyance injured in collision with heavy transport vehicle or bus in traffic accident

New code	V04.131	Pedestrian on standing electric scooter injured in collision with heavy transport vehicle or bus in traffic accident
New code	V04.138	Pedestrian on other standing micro-mobility pedestrian conveyance injured in collision with heavy transport vehicle or bus in traffic accident
Add		Pedestrian on electric skateboard injured in collision with heavy transport vehicle or bus in traffic accident
Add		Pedestrian on hoverboard injured in collision with heavy transport vehicle or bus in traffic accident
	V04.9	Pedestrian injured in collision with heavy transport vehicle or bus in traffic accident, unspecified whether traffic or nontraffic accident
New subcategory	V04.93	Pedestrian on standing micro-mobility pedestrian conveyance injured in collision with heavy transport vehicle or bus, unspecified whether traffic or nontraffic accident
New code	V04.931	Pedestrian on standing electric scooter injured in collision with heavy transport vehicle or bus, unspecified whether traffic or nontraffic accident
New code	V04.938	Pedestrian on other standing micro-mobility pedestrian conveyance injured in collision with heavy transport vehicle or bus, unspecified whether traffic or nontraffic accident
Add		Pedestrian on electric skateboard injured in collision with heavy transport vehicle or bus, unspecified whether traffic or nontraffic accident
Add		Pedestrian on hoverboard injured in collision with heavy transport vehicle or bus, unspecified whether traffic or nontraffic accident
	V05	Pedestrian injured in collision with railway train or railway vehicle
	V05.0	Pedestrian injured in collision with railway train or railway vehicle in nontraffic accident
New subcategory	V05.03	Pedestrian on standing micro-mobility pedestrian conveyance injured in collision with railway train or railway vehicle in nontraffic accident
New code	V05.031	Pedestrian on standing electric scooter injured in collision with railway train or railway vehicle in

nontraffic accident

New code	V05.038	Pedestrian on other standing micro-mobility pedestrian conveyance injured in collision with railway train or railway vehicle in nontraffic accident
Add		Pedestrian on electric skateboard injured in collision with railway train or railway vehicle in nontraffic accident
Add		Pedestrian on hoverboard injured in collision with railway train or railway vehicle in nontraffic accident
	V05.1	Pedestrian injured in collision with railway train or railway vehicle in traffic accident
New subcategory	V05.13	Pedestrian on standing micro-mobility pedestrian conveyance injured in collision with railway train or railway vehicle in traffic accident
New code	V05.131	Pedestrian on standing electric scooter injured in collision with railway train or railway vehicle in traffic accident
New code	V05.138	Pedestrian on other standing micro-mobility pedestrian conveyance injured in collision with railway train or railway vehicle in traffic accident
Add		Pedestrian on electric skateboard injured in collision with railway train or railway vehicle in traffic accident
Add		Pedestrian on hoverboard injured in collision with railway train or railway vehicle in traffic accident
	V05.9	Pedestrian injured in collision with railway train or railway vehicle in traffic accident, unspecified whether traffic or nontraffic accident
New subcategory	V05.93	Pedestrian on standing micro-mobility pedestrian conveyance injured in collision with railway train or railway vehicle, unspecified whether traffic or nontraffic accident
New code	V05.931	Pedestrian on standing electric scooter injured in collision with railway train or railway vehicle, unspecified whether traffic or nontraffic accident
New code	V05.938	Pedestrian on other standing micro-mobility pedestrian conveyance injured in collision with railway train or railway vehicle, unspecified whether traffic or nontraffic

		accident
Add		Pedestrian on electric skateboard injured in collision with railway train or railway vehicle, unspecified whether traffic or nontraffic accident
Add		Pedestrian on hoverboard injured in collision with railway train or railway vehicle, unspecified whether traffic or nontraffic accident
	V06	Pedestrian injured in collision with other nonmotor vehicle
	V06.0	Pedestrian injured in collision with other nonmotor vehicle in nontraffic accident
New subcategory	V06.03	Pedestrian on standing micro-mobility pedestrian conveyance injured in collision with other nonmotor vehicle in nontraffic accident
New code	V06.031	Pedestrian on standing electric scooter injured in collision with other nonmotor vehicle in nontraffic accident
New code	V06.038	Pedestrian on other standing micro-mobility pedestrian conveyance injured in collision with other nonmotor vehicle in nontraffic accident
Add		Pedestrian on electric skateboard injured in collision with other nonmotor vehicle in nontraffic accident
Add		Pedestrian on hoverboard injured in collision with other nonmotor vehicle in nontraffic accident
	V06.1	Pedestrian injured in collision with other nonmotor vehicle in traffic accident
New subcategory	V06.13	Pedestrian on standing micro-mobility pedestrian conveyance injured in collision with other nonmotor vehicle in traffic accident
New code	V06.131	Pedestrian on standing electric scooter injured in collision with other nonmotor vehicle in traffic accident
New code	V06.138	Pedestrian on other standing micro-mobility pedestrian conveyance injured in collision with other nonmotor vehicle in traffic accident
Add		Pedestrian on electric skateboard injured in collision with other nonmotor vehicle in traffic accident
Add		Pedestrian on hoverboard injured in collision with other nonmotor vehicle in traffic accident

V06.9 Pedestrian injured in collision with other nonmotor vehicle, unspecified whether traffic or nontraffic accident

New
subcategory

V06.93 Pedestrian on standing micro-mobility pedestrian conveyance injured in collision with other nonmotor vehicle, unspecified whether traffic or nontraffic accident

New code

V06.931 Pedestrian on standing electric scooter injured in collision with other nonmotor vehicle, unspecified whether traffic or nontraffic accident

New code

V06.938 Pedestrian on other standing micro-mobility pedestrian conveyance

injured in collision with other nonmotor vehicle, unspecified whether traffic or nontraffic accident

Add

Pedestrian on electric skateboard injured in collision with other nonmotor vehicle, unspecified whether traffic or nontraffic accident

Add

Pedestrian on hoverboard injured in collision with other nonmotor, unspecified whether traffic or nontraffic accident