Supplementary Table 1. ICD-9/-10 codes used to identify cycling injury hospitalizations.

ICD Code	Description
ICD-9	
E800-E807(.3)	Railway accidents – injured pedal cyclist
E810-E816, E818-E819(.6)	Motor Vehicle Traffic Accidents – injured pedal cyclist
E820-E825(.6)	Motor vehicle nontraffic accidents – injured pedal cyclist
E826-E829(.1)	Other Road vehicle accidents – injured pedal cyclist
ICD-10-CA	
V10-V19 (including all fourth	Pedal cyclist injured in transport accident
digit subdivisions)	

Supplementary Table 2. ICD-9/-10 codes used to identify head injuries. Head injury diagnosis codes were selected based on the Canadian Institute for Health Information's definition of head injuries⁽¹⁾ and the Centres for Disease Control's definition of traumatic brain injury.⁽²⁾

ICD-9 800-804 FRACTURE OF SKULL 800 Fracture of vault of skull 800.0 Closed with out mention of intracranial injury \$00.1 Closed with subarachnoid, subdural, and extradural hemorrhage 800.3 Closed with other and unspecified intracranial hemorrhage 800.4 Closed with intracranial injury of other and unspecified nature 800.5 Open without mention of intracranial injury \$00.6 Open with other and unspecified on an ature 800.7 Open with other and unspecified intracranial hemorrhage 800.8 Open with other and unspecified intracranial hemorrhage 800.9 Open with intracranial injury of other and unspecified nature 801.1 Closed with out mention of intracranial injury \$01.1 Closed with other and unspecified intracranial hemorrhage 801.3 Closed with other and unspecified intracranial hemorrhage 801.4 Closed with intracranial injury of other and unspecified nature 801.5 Open with other and unspecified intracranial injury \$01.6 Open with other and unspecified intracranial hemorrhage 801.7 Open with other and unspecified intracranial hemorrhage 801.8 Open with other and unspecified intracranial hemorrhage 801.8 Open with other and unspecified intracranial hemorrhage 801.8 Open with intracranial injury of other and unspecified intracranial hemorrhage Open with intracranial injury of other and unspecified intracranial hemorrhage Open with intracranial injury of other and unspecified intracranial hemorrhage Open with other and unspecified intracranial hemorrhage Open with intracranial injury of other and unspecified intracranial hemorrhage Open with intracranial injury of other and unspecified intracranial hemorrhage Open with other and unspecified intracranial hemorrhage Open with other and unspecified intracranial injury of other and unspecified intracranial hemorrhage Open with other and unspecified intracranial injury of other and unspecified intracranial hemorrhage Open with intracranial injury of other and unspecified intra	ICD Code	Definition	Brain Injury	Scalp/ Skull Injury	Face Injury
800.0 Closed without mention of intracranial injury 800.1 Closed with cerebral laceration and contusion 800.2 Closed with subarachnoid, subdural, and extradural hemorrhage 800.3 Closed with other and unspecified intracranial hemorrhage 800.4 Closed with intracranial injury of other and unspecified nature 800.5 Open without mention of intracranial injury 800.6 Open with cerebral laceration and contusion 800.7 Open with other and unspecified intracranial hemorrhage 800.8 Open with other and unspecified intracranial hemorrhage 800.9 Open with intracranial injury of other and unspecified nature 801 Fracture of base of skull 801.0 Closed without mention of intracranial injury 801.1 Closed with other and unspecified intracranial hemorrhage 801.2 Closed with subarachnoid, subdural, and extradural hemorrhage 801.3 Closed with other and unspecified intracranial hemorrhage 801.4 Closed with other and unspecified intracranial hemorrhage 801.5 Open without mention of intracranial injury 801.6 Open with cerebral laceration and contusion 801.7 Open with subarachnoid, subdural, and extradural hemorrhage 801.8 Open with other and unspecified intracranial hemorrhage 801.9 Open with intracranial injury of other and unspecified nature	ICD-9				
800.0 Closed without mention of intracranial injury 800.1 Closed with cerebral laceration and contusion 800.2 Closed with subarachnoid, subdural, and extradural hemorrhage 800.3 Closed with other and unspecified intracranial hemorrhage 800.4 Closed with intracranial injury of other and unspecified nature 800.5 Open with cerebral laceration and contusion 800.7 Open with subarachnoid, subdural, and extradural hemorrhage 800.8 Open with other and unspecified intracranial hemorrhage 800.9 Open with intracranial injury of other and unspecified nature 801 Fracture of base of skull 801.0 Closed with other and unspecified intracranial injury 801.1 Closed with subarachnoid, subdural, and extradural hemorrhage 801.2 Closed with other and unspecified intracranial hemorrhage 801.4 Closed with other and unspecified intracranial hemorrhage 801.5 Open without mention of intracranial injury 801.6 Open with cerebral laceration and contusion 801.7 Open with subarachnoid, subdural, and extradural hemorrhage 801.8 Open with other and unspecified intracranial hemorrhage 801.9 Open with intracranial injury of other and unspecified intracranial hemorrhage 801.9 Open with intracranial injury of other and unspecified intracranial hemorrhage 801.9 Open with intracranial injury of other and unspecified intracranial hemorrhage	800-804	FRACTURE OF SKULL			
800.1 Closed with cerebral laceration and contusion 800.2 Closed with subarachnoid, subdural, and extradural hemorrhage 800.3 Closed with other and unspecified intracranial hemorrhage 800.4 Closed with intracranial injury of other and unspecified nature 800.5 Open without mention of intracranial injury 800.6 Open with subarachnoid, subdural, and extradural hemorrhage 800.8 Open with other and unspecified intracranial hemorrhage 800.9 Open with intracranial injury of other and unspecified nature 801 Fracture of base of skull 801.0 Closed without mention of intracranial injury 801.1 Closed with cerebral laceration and contusion 801.2 Closed with cerebral laceration and extradural hemorrhage 801.3 Closed with other and unspecified intracranial hemorrhage 801.4 Closed with intracranial injury of other and unspecified nature 801.5 Open without mention of intracranial injury 801.6 Open with cerebral laceration and contusion 801.7 Open with subarachnoid, subdural, and extradural hemorrhage 801.8 Open with other and unspecified intracranial hemorrhage 801.9 Open with intracranial injury of other and unspecified nature	800	Fracture of vault of skull			
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hemorrhage 800.4 Closed with intracranial injury of other and unspecified nature 800.5 Open without mention of intracranial injury 800.6 Open with cerebral laceration and contusion 800.7 Open with subarachnoid, subdural, and extradural hemorrhage 800.8 Open with other and unspecified intracranial hemorrhage 800.9 Open with intracranial injury of other and unspecified nature 801 Fracture of base of skull 801.0 Closed without mention of intracranial injury 801.1 Closed with cerebral laceration and contusion 801.2 Closed with subarachnoid, subdural, and extradural hemorrhage 801.3 Closed with other and unspecified intracranial hemorrhage 801.4 Closed with intracranial injury of other and unspecified nature 801.5 Open without mention of intracranial injury 801.6 Open with cerebral laceration and contusion 801.7 Open with subarachnoid, subdural, and extradural hemorrhage 801.8 Open with other and unspecified intracranial hemorrhage 801.9 Open with intracranial injury of other and unspecified nature	800.2		✓		
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800.6 Open with cerebral laceration and contusion 800.7 Open with subarachnoid, subdural, and extradural hemorrhage 800.8 Open with other and unspecified intracranial hemorrhage 800.9 Open with intracranial injury of other and unspecified nature 801 Fracture of base of skull 801.0 Closed without mention of intracranial injury 801.1 Closed with cerebral laceration and contusion 801.2 Closed with subarachnoid, subdural, and extradural hemorrhage 801.3 Closed with other and unspecified intracranial hemorrhage 801.4 Closed with intracranial injury of other and unspecified nature 801.5 Open without mention of intracranial injury 801.6 Open with cerebral laceration and contusion 801.7 Open with subarachnoid, subdural, and extradural hemorrhage 801.8 Open with other and unspecified intracranial hemorrhage 801.9 Open with intracranial injury of other and unspecified nature	800.5	Open without mention of intracranial injury		\checkmark	
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801.1 Closed with cerebral laceration and contusion 801.2 Closed with subarachnoid, subdural, and extradural hemorrhage 801.3 Closed with other and unspecified intracranial hemorrhage 801.4 Closed with intracranial injury of other and unspecified nature 801.5 Open without mention of intracranial injury 801.6 Open with cerebral laceration and contusion 801.7 Open with subarachnoid, subdural, and extradural hemorrhage 801.8 Open with other and unspecified intracranial hemorrhage 801.9 Open with intracranial injury of other and unspecified nature				\checkmark	
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801.4 Closed with intracranial injury of other and unspecified nature 801.5 Open without mention of intracranial injury 801.6 Open with cerebral laceration and contusion 801.7 Open with subarachnoid, subdural, and extradural hemorrhage 801.8 Open with other and unspecified intracranial hemorrhage 801.9 Open with intracranial injury of other and unspecified nature	801.3	Closed with other and unspecified intracranial	✓		
801.5 Open without mention of intracranial injury 801.6 Open with cerebral laceration and contusion 801.7 Open with subarachnoid, subdural, and extradural hemorrhage 801.8 Open with other and unspecified intracranial hemorrhage 801.9 Open with intracranial injury of other and unspecified nature	801.4	Closed with intracranial injury of other and unspecified	✓		
801.6 Open with cerebral laceration and contusion 801.7 Open with subarachnoid, subdural, and extradural hemorrhage 801.8 Open with other and unspecified intracranial hemorrhage 801.9 Open with intracranial injury of other and unspecified nature	801.5			\checkmark	
801.7 Open with subarachnoid, subdural, and extradural hemorrhage 801.8 Open with other and unspecified intracranial hemorrhage 801.9 Open with intracranial injury of other and unspecified nature		-	\checkmark		
hemorrhage 801.8 Open with other and unspecified intracranial hemorrhage 801.9 Open with intracranial injury of other and unspecified nature		<u> </u>	,		
801.8 Open with other and unspecified intracranial hemorrhage 801.9 Open with intracranial injury of other and unspecified nature		1	✓		
801.9 Open with intracranial injury of other and unspecified nature	801.8	Open with other and unspecified intracranial	✓		
	801.9	Open with intracranial injury of other and unspecified	✓		
	802				

ICD Code	Definition	Brain Injury	Scalp/ Skull Injury	Face Injury
802.0	Nasal bones, closed			✓
802.1	Nasal bones, open			\checkmark
802.2	Mandible, closed			\checkmark
802.3	Mandible, open			\checkmark
802.4	Malar and maxillary bones, closed			\checkmark
802.5	Malar and maxillary bones, open			\checkmark
802.6	Orbital floor (blow-out), closed			✓ ✓
802.7	Orbital floor (blow-out), open			\checkmark
802.8	Other facial bones, closed			\checkmark
802.9	Other facial bones, open			\checkmark
803	Other and unqualified skull fractures			
803.0	Closed without mention of intracranial injury		\checkmark	
803.1	Closed with cerebral laceration and contusion	\checkmark		
803.2	Closed with subarachnoid, subdural, and extradural	./		
	hemorrhage	•		
803.3	Closed with other and unspecified intracranial	./		
	hemorrhage	•		
803.4	Closed with intracranial injury of other and unspecified	✓		
	nature	•		
803.5	Open without mention of intracranial injury		\checkmark	
803.6	Open with cerebral laceration and contusion	\checkmark		
803.7	Open with subarachnoid, subdural, and extradural	./		
	hemorrhage	•		
803.8	Open with other and unspecified intracranial	✓		
	hemorrhage	•		
803.9	Open with intracranial injury of other and unspecified	./		
	nature	•		
804	Multiple fractures involving skull or face with other			
	bones			
804.0	Closed without mention of intracranial injury		\checkmark	
804.1	Closed with cerebral laceration and contusion	\checkmark		
804.2	Closed with subarachnoid, subdural, and extradural	1		
	hemorrhage	•		
804.3	Closed with other and unspecified intracranial	1		
	hemorrhage	•		
804.4	Closed with intracranial injury of other and unspecified	1		
	nature	•		
804.5	Open without mention of intracranial injury		\checkmark	
804.6	Open with cerebral laceration and contusion	\checkmark		
804.7	Open with subarachnoid, subdural, and extradural	✓		
	hemorrhage	•		
804.8	Open with other and unspecified intracranial	✓		
	hemorrhage	,		

ICD Code	Definition	Brain Injury	Scalp/ Skull Injury	Face Injury
804.9	Open with intracranial injury of other and unspecified	✓		
	nature	V		
850-854	INTRACRANIAL INJURY, EXCLUDING THOSE WITH SKULL FRACTURE			
850	Concussion			
850.0	With no loss of consciousness	\checkmark		
850.1	With brief loss of consciousness	\checkmark		
850.11	With loss of consciousness of 30 minutes or less	\checkmark		
850.12	With loss of consciousness from 31 to 59 minutes	\checkmark		
850.2	With moderate loss of consciousness	\checkmark		
850.3	With prolonged loss of consciousness and return to pre-	,		
00010	existing conscious level	\checkmark		
850.4	With prolonged loss of consciousness, without return to	,		
	pre-existing conscious level	\checkmark		
850.5	With loss of consciousness of unspecified duration	✓		
850.9	Concussion, unspecified	✓		
851	Cerebral laceration and contusion			
851.0	Cortex (cerebral) contusion without mention of open			
021.0	intracranial wound	\checkmark		
851.1	Cortex (cerebral) contusion with open intracranial			
031.1	wound	\checkmark		
851.2	Cortex (cerebral) laceration without mention of open			
031.2	intracranial wound	\checkmark		
851.3	Cortex (cerebral) laceration with open intracranial			
031.3	wound	\checkmark		
851.4	Cerebellar or brain stem contusion without mention of			
031.4	open intracranial wound	\checkmark		
851.5	Cerebellar or brain stem contusion with open			
031.3	intracranial wound	\checkmark		
851.6	Cerebellar or brain stem laceration without mention of			
031.0	open intracranial wound	\checkmark		
851.7	Cerebellar or brain stem laceration with open			
031.7	intracranial wound	\checkmark		
851.8	Other and unspecified cerebral laceration and			
031.0	contusion, without mention of open intracranial wound	\checkmark		
951.0	Other and unspecified cerebral laceration and			
851.9	•	\checkmark		
053	contusion, with open intracranial wound			
852	Subarachnoid, subdural, and extradural			
052.0	hemorrhage, following injury			
852.0	Subarachnoid hemorrhage following injury without	\checkmark		
0.52 1	mention of open intracranial wound			
852.1	Subarachnoid hemorrhage following injury with open	\checkmark		
	intracranial wound			

			Q 1 /	
ICD Code	Definition	Brain	Scalp/ Skull	Face
ICD Code	Definition	Injury	Injury	Injury
852.2	Subdural hemorrhage following injury without mention		mjul y	
032.2	of open intracranial wound	\checkmark		
852.3	Subdural hemorrhage following injury with open			
	intracranial wound	✓		
852.4	Extradural hemorrhage following injury without	✓		
	mention of open intracranial wound	V		
852.5	Extradural hemorrhage following injury with open	✓		
	intracranial wound	•		
853	Other and unspecified intracranial hemorrhage			
	following injury	,		
853.0	Without mention of open intracranial wound	√		
853.1	With open intracranial wound	✓		
854	Intracranial injury of other and unspecified nature	,		
854.0	Without mention of open intracranial wound	✓		
854.1	With open intracranial wound	\checkmark		
959	Injury, other and unspecified			
959.01	Head injury, unspecified		\checkmark	
870	Open wound of ocular adnexa			
870.0	Laceration of skin of eyelid and periocular area			\checkmark
870.1	Laceration of eyelid, full-thickness, not involving			✓
	lacrimal passages			
870.2	Laceration of eyelid involving lacrimal passages			\checkmark
870.3	Penetrating wound of orbit, without mention of foreign			✓
0=0.4	body			
870.4	Penetrating wound of orbit with foreign body			√
870.8	Other specified open wounds of ocular adnexa			✓
870.9	Unspecified open wound of ocular adnexa			✓
871	Open wound of eyeball			,
871.0	Ocular laceration without prolapse of intraocular tissue			✓
871.1	Ocular laceration with prolapse or exposure of			\checkmark
971.3	intraocular tissue			./
871.2	Rupture of eye with partial loss of intraocular tissue			∨
871.3	Avulsion of eye			∨ ✓
871.4	Unspecified laceration of eye			✓
871.5	Penetration of eyeball with magnetic foreign body			v
871.6	Penetration of eyeball with (nonmagnetic) foreign body			· /
871.7	Unspecified ocular penetration			· /
871.9	Unspecified open wound of eyeball			V
872 O	Open wound of ear External ear, without montion of complication			1
872.0 872.1	External ear, without mention of complication			v
872.1 872.6	External ear, complicated Other provision parts of our without mention of			•
872.6	Other specified parts of ear, without mention of			\checkmark
	complication			

ICD Code	Definition	Brain Injury	Scalp/ Skull Injury	Face Injury
872.7	Other specified parts of ear, complicated			\checkmark
872.8	Ear, part unspecified, without mention of complication			\checkmark
872.9	Ear, part unspecified, complicated			\checkmark
873	Other open wound of head			
873.0	Scalp, without mention of complication		✓	
873.1	Scalp, complicated		\checkmark	
873.2	Nose, without mention of complication			√
873.3	Nose, complicated			√
873.4	Face, without mention of complication			√
873.5	Face, complicated			✓
873.6	Internal structures of mouth, without mention of complication			✓
873.7	Internal structures of mouth, complicated			\checkmark
873.8	Other and unspecified open wound of head without		✓	
	mention of complication		•	
873.9	Other and unspecified open wound of head, complicated		✓	
925	Crushing injury of face, scalp and neck			
925.1	Crushing injury of face and scalp		\checkmark	
ICD-10				
S01	Open wound of head			
S01.0	Open wound of scalp		\checkmark	
S01.1	Open wound of eyelid and periocular area			\checkmark
S01.2	Open wound of nose			\checkmark
S01.3	Open wound of ear			\checkmark
S01.4	Open wound of cheek and temporomandibular area			\checkmark
S01.5	Open wound of lip and oral cavity			\checkmark
S01.7	Multiple open wounds of head		\checkmark	
S01.8	Open wound of other parts of head		\checkmark	
S01.9	Open wound of head, part unspecified		\checkmark	
S01.10	1 1			\checkmark
S02	Fracture of skull and facial bones			
S02.0	Fracture of vault of skull		✓	
S02.1	Fracture of base of skull		\checkmark	
S02.2	Fracture of nasal bones			√
S02.3	Fracture of orbital floor			√
S02.4	Fracture of malar and maxillary bones			✓
S02.5	Fracture of tooth			√
S02.6	Fracture of mandible		,	✓
S02.7	Multiple fractures involving skull and facial bones		√	
S02.8	Fractures of other skull and facial bones		√	
S02.9	Fracture of skull and facial bones, part unspecified		✓	
S06	Intracranial injury			

ICD Code	Definition	Brain Injury	Scalp/ Skull Injury	Face Injury
S06.0	Concussion	✓		
S06.1	Traumatic cerebral oedema	\checkmark		
S06.2	Diffuse brain injury	\checkmark		
S06.3	Focal brain injury	\checkmark		
S06.4	Epidural haemorrhage	\checkmark		
S06.5	Traumatic subdural haemorrhage	\checkmark		
S06.6	Traumatic subarachnoid haemorrhage	\checkmark		
S06.7	Intracranial injury with prolonged coma	\checkmark		
S06.8	Other intracranial injuries	\checkmark		
S06.9	Intracranial injury, unspecified	\checkmark		
S07	Crushing injury of face			
S07.0	Crushing injury of skull		\checkmark	
S07.1	Crushing injury of other parts of head		\checkmark	
S07.8	Crushing injury of head, part unspecified		\checkmark	
S07.9	Crushing injury of face			\checkmark
S09	Other and unspecified injuries of head			
S09.7	Multiple injuries of head		\checkmark	
S09.8	Other specified injuries of head		\checkmark	
S09.9	Unspecified injury of head		\checkmark	
T02	Fractures involving multiple body regions			
T02.0	Fractures involving head with neck		\checkmark	

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- 2. Faul M, Xu L, Wald M, Coronado V. Traumatic Brain Injury in the United States: Emergency Department Visits, Hospitalizations and Deaths 2002-2006. [Internet]. Atlanta (GA): Centers for Disease Control and Prevention, National Center for Injury Prevention and Control; 2010. Available from: http://www.cdc.gov/TraumaticBrainInjury