

Topic 1: Off-Road and Emerging Vehicle-Related Injuries

Variable Name	Label	Type	Coding / Format	Definition	Notes
id	Trauma NB registry ID	Categorical (nominal)	Unique identifier	Registry trauma episode	Primary identifier
age	Age at injury	Integer	0-120 years	Age at admission	Potential confounder
sex	Sex	Categorical	1=Male, 2=Female, 0=Unknown	Biological sex recorded in chart	Standard demographic
vehicle_type	Vehicle type	Categorical	1=ATV, 2=UTV, 3=Snowmobile, 4=E-bike, 5=E-scooter, 6=Other	Vehicle involved in injury event	Primary exposure descriptor
helmet_use	Helmet use	Binary	0=Unknown, 1=No, 2=Yes	Helmet worn at time of injury	Primary exposure
seatbelt_use	Seatbelt use	Binary	0=Unknown, 1=No, 2=Yes, NA=Not applicable	Seatbelt use when applicable	Primary exposure
protective_device	Protective device status	Categorical	0=None, 1=Helmet only, 2=Seatbelt only, 3=Both	Composite protective device variable	Main comparison variable
iss	Injury Severity Score	Integer	1-75	Severity of injury	Primary outcome

Variable Name	Label	Type	Coding / Format	Definition	Notes
icu_adm	ICU admission	Binary	1=No, 2=Yes	Admitted to ICU	Outcome
icu_los	ICU length of stay	Continuous	≥0 days	Duration of ICU stay	Outcome
hosp_los	Hospital length of stay	Continuous	≥0 days	Duration of hospitalization	Outcome
mortality	In-hospital mortality	Binary	1=Alive, 2=Dead	Death prior to discharge	Outcome
operative_int	Operative intervention	Binary	1=No, 2=Yes	Surgical intervention performed	Outcome
injury_pattern	Primary injury pattern	Categorical	TBD by AIS grouping	Most severe injury region/pattern	Secondary outcome
injury_region	Geographic injury location	Categorical	Region code	Location where injury occurred	Geographic analysis
residence_region	Region of residence	Categorical	Region code	Patient home region	Geographic analysis
year_fisc	Fiscal year	Ordinal	2014 onward	Year of injury	Trend analysis

Topic 2: Blood Alcohol Concentration Among Motor Vehicle Collision Patients

Variable Name	Label	Type	Coding / Format	Definition	Notes
id	Trauma NB registry ID	Categorical	Unique identifier	Trauma episode identifier	Primary key
age	Age	Integer	0-120 years	Age at injury	Adjustment variable
sex	Sex	Categorical	Standard coding	Patient sex	Covariate
mvc_role	MVC role	Categorical	1=Driver, 2=Passenger, 3=Pedestrian	Role at collision	Eligibility variable
bac_value	Blood alcohol concentration	Continuous	mmol/L or mg/dL	Measured BAC result	Raw exposure
bac_group	BAC category	Categorical	0=Not tested, 1=None detected, 2=Detected below threshold, 3=Detected above threshold	Exposure category	Primary exposure
transfer_status	Transfer patient	Binary	1=No, 2=Yes	Interfacility transfer status	Stratification variable

Variable Name	Label	Type	Coding / Format	Definition	Notes
hours_to_bac	Time to BAC testing	Continuous	Hours	Injury-to-test interval	Secondary exposure
helmet_restraint	Protective device use	Binary	1=No, 2=Yes	Helmet/seatbelt use as applicable	Adjustment variable
iss	Injury Severity Score	Integer	1-75	Injury severity	Outcome
mortality	Mortality	Binary	Alive/Dead	Death before discharge	Outcome
discharge_dest	Discharge destination	Categorical	Home, Rehab, LTC, Death, Other	Disposition	Outcome
facility	Definitive care facility	Categorical	Facility code	Definitive care hospital	Outcome/covariate
icu_adm	ICU admission	Binary	No/Yes	ICU admission	Outcome
icu_los	ICU LOS	Continuous	Days	ICU stay duration	Outcome
hosp_los	Hospital LOS	Continuous	Days	Hospital stay duration	Outcome
operative_int	Operative intervention	Binary	No/Yes	Surgery performed	Outcome

Topic 3: Rapid Sequence Intubation, Sedation, Analgesia, Hypotension and Vasopressor Use

Variable Name	Label	Type	Coding / Format	Definition	Notes
id	Trauma NB registry ID	Categorical	Unique identifier	Intubated trauma patient	Primary key
age	Age	Integer	Years	Age at admission	Covariate
sex	Sex	Categorical	Standard coding	Patient sex	Covariate
facility	Facility	Categorical	Facility code	Intubating facility	Stratification
setting	Intubation setting	Categorical	1=Prehospital, 2=ED	Location of intubation	Exposure descriptor
induction_agent	Induction medication	Categorical	Ketamine, Etomidate, Propofol, Other	Primary RSI drug	Exposure
induction_regimen	Induction regimen	Categorical	Combination code	Full induction protocol	Exposure
sedation_agent	Post-intubation sedation	Categorical	Drug name	Sedation administered	Exposure
analgesia_agent	Post-intubation analgesia	Categorical	Drug name	Analgesic administered	Exposure
pre_intub_sbp	Pre-intubation SBP	Continuous	mmHg	Blood pressure before RSI	Confounder

Variable Name	Label	Type	Coding / Format	Definition	Notes
post_intub_hypotension	Post-intubation hypotension	Binary	No/Yes	Defined per protocol threshold	Primary outcome
vasopressor_use	Vasopressor administered	Binary	No/Yes	Vasopressor initiated after RSI	Outcome
vasopressor_type	Vasopressor type	Categorical	Norepinephrine, Epinephrine, Phenylephrine, Other	Drug used	Secondary outcome
iss	Injury Severity Score	Integer	1-75	Injury severity	Covariate
mechanism	Mechanism of injury	Categorical	Registry categories	Injury mechanism	Covariate
icu_adm	ICU admission	Binary	No/Yes	ICU admission	Outcome
icu_los	ICU LOS	Continuous	Days	ICU stay	Outcome
hosp_los	Hospital LOS	Continuous	Days	Hospital stay	Outcome
mortality	Mortality	Binary	Alive/Dead	In-hospital death	Outcome

Topic 4: Trauma Recidivism Following Major Injury

Variable Name	Label	Type	Coding / Format	Definition	Notes
patient_id	Unique patient identifier	Categorical	Encrypted identifier	Links multiple trauma events	Essential variable
index_event_date	Index trauma date	Date	DD-MM-YYYY	First trauma registry episode	Reference event
age	Age at index injury	Integer	Years	Patient age	Exposure
sex	Sex	Categorical	Standard coding	Patient sex	Exposure
mechanism	Injury mechanism	Categorical	Registry categories	Cause of injury	Exposure
alcohol_involved	Alcohol involvement	Binary	No/Yes	Alcohol present during injury	Exposure
iss	Injury Severity Score	Integer	1-75	Severity of index event	Exposure
injury_type	Injury classification	Categorical	Blunt, Penetrating, Burn, Other	Injury type	Exposure
residence_region	Region of residence	Categorical	Region code	Patient home region	Exposure
facility	Definitive facility	Categorical	Facility code	Facility providing care	Exposure

Variable Name	Label	Type	Coding / Format	Definition	Notes
recidivism	Repeat major trauma	Binary	No/Yes	New Trauma NB registry admission	Primary outcome
number_events	Number of trauma events	Integer	≥1	Total registry admissions	Secondary outcome
time_to_repeat	Time to repeat injury	Continuous	Days	Interval between injuries	Outcome
repeat_mechanism	Mechanism of repeat injury	Categorical	Registry categories	Cause of recurrent injury	Outcome
repeat_iss	Repeat event ISS	Integer	1-75	Severity of recurrent injury	Outcome

Topic 5: Falls, Fall Prevention, and Loss of Autonomy Among Older Adults

Variable Name	Label	Type	Coding / Format	Definition	Notes
participant_id	Survey participant ID	Categorical	Unique identifier	Survey respondent	Primary key
age_group	Age category	Ordinal	55-64, 65-74, 75-84, ≥85	Age grouping	Analysis variable
sex	Sex	Categorical	Standard coding	Participant sex	Stratification
residence_type	Residence type	Categorical	1=Community, 2=Assisted	Living arrangement	Exposure

Variable Name	Label	Type	Coding / Format	Definition	Notes
			community, 3=Special care home, 4=Nursing home		
region	Geographic region	Categorical	NB health region	Location	Stratification
falls_12mo	Fall in previous 12 months	Binary	No/Yes	Any fall reported	Primary outcome
num_falls	Number of falls	Integer	≥0	Falls in past year	Fall burden
fear_falling	Fear of falling	Binary	No/Yes	Self-reported fear	Outcome
balance_concern	Balance concern	Binary	No/Yes	Reports unsteadiness	Outcome
hosp_fall	Fall requiring hospital admission	Binary	No/Yes	Serious fall injury	Outcome
autonomy_loss	Loss of autonomy	Binary	No/Yes	Self-reported decline in independence	Primary outcome
autonomy_reason	Reason for loss of autonomy	Categorical	Falls, Acute illness, Chronic illness, Social,	Cause of loss	Outcome

Variable Name	Label	Type	Coding / Format	Definition	Notes
			Financial, Other		
transition_care	Higher level of care required	Binary	No/Yes	Moved to assisted living or institution	Outcome
home_support_new	New home support services	Binary	No/Yes	Additional supports required	Outcome
cognitive_screen	Suspected cognitive impairment	Binary	No/Yes	Screening result	Exposure
survey_assistance	Survey completed with assistance	Binary	No/Yes	Assistance from caregiver/family	Supporting variable
assistant_type	Helper relationship	Categorical	Family, Caregiver, SDM, Other	Person assisting	Secondary variable
knowledge_score	Fall prevention knowledge score	Continuous	Score range TBD	Knowledge assessment score	Outcome
awareness_resources	Awareness of resources	Binary	No/Yes	Knowledge of programs	Outcome

Variable Name	Label	Type	Coding / Format	Definition	Notes
prevention_participation	Participation in fall prevention programs	Binary	No/Yes	Previous participation	Outcome
participation_barrier	Main barrier to participation	Categorical	Transportation, Cost, Awareness, Mobility, Other	Barrier analysis	Outcome
participation_enabler	Main enabler to participation	Categorical	Family support, Access, Provider recommendation, Other	Facilitator analysis	Outcome