International Alpine Trauma Registry

The following Case Report Form and inclusion / exclusion criteria where defined by the expert panel for the Alpine Trauma Register.

1. INCLUSION & EXLUSION CRITERIA

INCLUSION CRITERIA

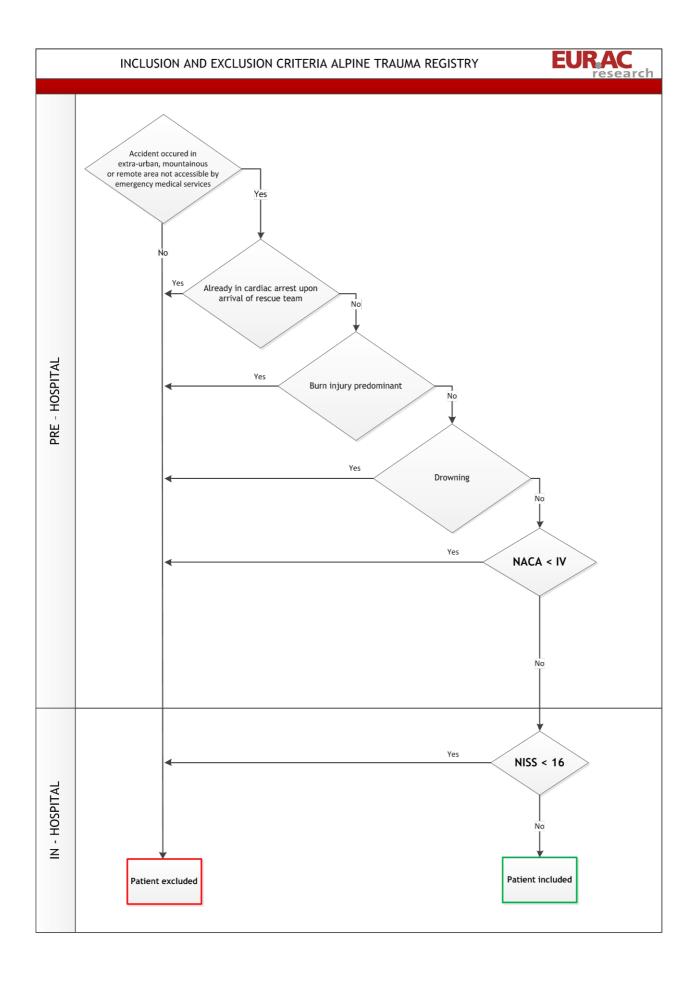
- A pre hospital NACA-Score ≥ IV
- A New Injury Severity Score (ISS) > 15
- The accident must occur in extra urban, mountain, alpine or remote areas, not readily accessible by regular Emergency Medical Service.

EXCLUSION CRITERIA

- Patient should be excluded if they are already in cardiac arrest upon arrival of rescue team at the scene
- Patient who suffer drowning are not included
- Burn patients should be excluded if the burn represents the predominant injury or if the patient is treated in a specialized burn unit

OPTIONAL EXCLUSION CRITERIA

• Under specified circumstances accidents how occur on ski slopes can be excluded from the data collection. If a reporting hospital is going to choose this option, it will last for the whole of the study. Also the project coordinator of the Alpine Trauma Register must be informed



2. CASE REPORT FORM

Automatically recorded information			
	Α	Patient ID	Automaticly generatet ID
L Z	В	Hospital	Hospital ID / Hospital transfer history
AD	С	Logged in as:	LDM-User-Name
CRF HEADER	D	Last modified by:	LDM-User-Name
	Ε	Last modification on:	Date / Time

	Patient 's record & case history				
	1	Patient 's date of birth	Date of birth		
Patient data	2	Gender	 Male Female Unkown 		
	3	ASA classification	 ASA 1 ASA 2 ASA 3 ASA 4 ASA 5 ASA 6 Unknown 		
	5	Date & time of accident	DateTimeUnknown		
S	6	Date & time of first emergency call	DateTimeUnkown		
Accident characteristics	7	Type of activity	 Freeride / Backcountry Skiing/Snowboarding Skitouring Sledging Snowshoeing Riding a snowmobile Hiking Climbing Mountainbiking Canyoning Rafting / Wildwater kayaking Paragliding Hang-gliding Working in wilderness /mountain area Other (should be sprecified) Unknown 		

	1		
	8	Mechanism of injury	 Fall (inc. height in meter) to specify: low energy fall high energy fall Buried by avalanche to specify: Patient was buried partial or Patient was buried completely Crash Collide with to specify: other person object Trapped by an object Unknown
	9	Terrain victim was found	 Easy Exposed, steep Belaying rescue team necessary Extreme Unknown
	10	Dominating type of injury	BluntPenetratingUnknown
	11	Cardiac arrest during rescue mission	 No Yes to specify: Patient died Return of spontaneous cirrulation Unknown
	12	Arrival of the first rescue service at scene	DateTimeUnknown
	13	Responsive /involved Mountain rescue service	Plain Text
Rescue Mission	14	Mission characteristics	 Air support Terrestrial rescue Terrestrial rescue with technical evacuation Every answer should be specified Helicopter (inc. Name) Fixed wing (inc. Name) Unknown

	Pre-hospital				
Vital data	15	Systolic blood pressure	 Value in mm Hg If exact value is missing: RTS categories Unknown 		
	16	Respiratory rate	 Value in /min If exact value is missing: RTS categories Unknown 		
	17	Patient core temperature	 Value in C° or fahrenheit If exact value is missing: Normal body temperature Mild hypothermia Moderate hypothermia Severe hypothermia Profound hypothermia Unknown They way of measurement should be specified! 		
Injury data	18	Glasgow Coma Scale	 Automatical calculation of GCS by recording: Eye component Verbal component Motor component If components are missing Enter GCS Unknown 		
	19	NACA-Score	 NACA 0 NACA I NACA II NACA III NACA IV NACA V NACA VI NACA VII Unkown 		

20	Analgesics given during pre-hospital care	 Ketamine Opioids Other (the kind of analgesics should be specified) Unknown They way of infusion should be specified: Intravenous cannula Intraosseous needle Intranasal Aspiration needle EV Other Unkown
21	Intubation	 Yes to specify: the type of airway management: A tube in the trachea - drug assisted A tube in the trachea - not drug assisted A supraglottic airway adjunct that prevents speech - drug assisted A supraglottic airway adjunct that prevents speech - not drug assisted A supraglottic airway adjunct that prevents speech - not drug assisted Other (The kind of airway management should be specified^ No Unknown
22	First emergency surgical intervention	 Thoracostomy Coniotomy None Unknown
23	Highest level of care	 Level I. No Field Care Level II. Basic Life Support Level III. Advanced Life Support - No Physician Present Level IV. Advanced Life Support - Physician Field Care Level V. Analgesia Only Unknown

24	Highest level of care after evacuation	 Level I. No Field Care Level II. Basic Life Support Level III. Advanced Life Support - No Physician Present Level IV. Advanced Life Support - Physician Field Care Level V. Analgesia Only Unknown
2	5 Volumen replacement	 Yes to specify: Type of solution: Hypertonic solution Hypotonic solution Crystalloid solution Other (The used solution should be specified) Unknown Amount of solution: Should be recorded in ml Way of infusion: Intraosseous needle Intravenous cannula Other (The way of infusion should be specified) Unknown
		In-hospital Level I - Trauma center
20	Trauma care lev 6 at referring hospital	Level II - Large hospital
2	7 Hospital transfe within 24 hours	 Transfer to higher trauma center within 24 hour No transfer within 24 hours No detail information about patient transfer

28	Systolic blood pressure	 Value in mm Hg If exact value is missing: RTS categories Unknown If Patient was in general anasthesia, intubated or curarized on arrival at referring hospital the following should be specified Insufficent Spontaneously sufficent Unknown
29	Respiratory rate	 Value in /min If exact value is missing: RTS categories Unknown
30	Aterial Base Exess	 Value in mmol/I Not measured within the first hour after arrival in hospital Unkown
31	International normalized ratio INR	Exact valueUnknown
32	Partial thromboplastin time	Exact valueUnknown
33	Hemoglobin	Exact value in g%Unknown

		Value in C° or fahrenheit
34	Patient core temperature	If exact value is missing: Normal body temperature Mild hypothermia Moderate hypothermia Severe hypothermia Profound hypothermia Unknown They way of measurement should be specified: Oesophageal Nasopharyngeal Rectal Bladder Tympanic membrane Infra-red tympanic membrane thermometer Blood Muscle Other (should be specified) Unknown
35	In-hospital care	 Pelvic bleeding control (radiological intervention or external pelvis packing) Emergency surgery to control bleeding (e.g. abdominal, thoracic) Emergency intracranial surgery (except ICP) Other (should be specified) Unknown None
36	Traumatic brain injury	 Yes No Unkown

			Injury coding	
Injury coding	37	Injury coding	 For every injury: Body region based on AIS- Body regions AIS severity score Injury was already recorded pre-hospital: Yes No Not applicable Diagnosis details Injury details 	
			Outcome & survival status	
	38	Survival status (at discharge from acute care hospital)	Died in hospitalSurvived until dischargeUnknown	
	38	Survival status (30 days after injury)	AliveDeadUnknown	
Outcome & survival status	39	Glasgow Outcome Scale	 Good recovery Moderate disability Severe disability Persistent vegetative state Death Unkown 	
	40	Discharge destination	 Home Rehabilitation Morgue Another CCU, higher treatment level Another CCU, same level of care Another intermediate or low care somatic hospital ward Other Unknown 	
	Informed consent			
Informed consent		Informed consent	 Yes, given No, not given Patient was unable to give it 	