

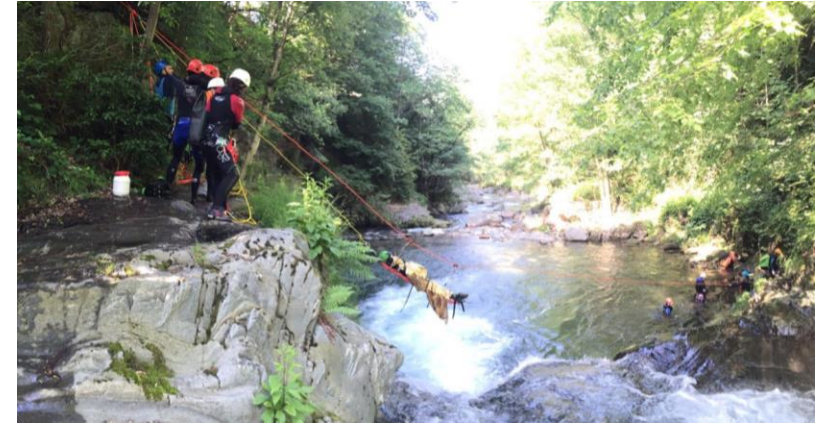
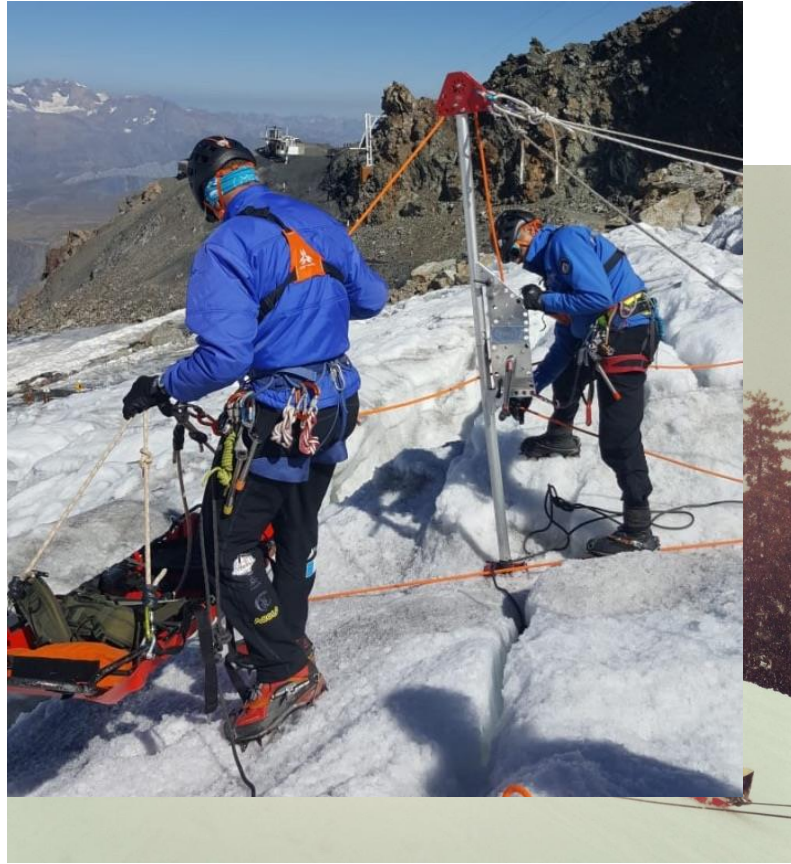
# Are you Prepared?

The French Mountain Rescue  
experience.

BeSEDiM 2024







Formation and on boarding

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RESEARCH

Open Access

## A regional trauma system to optimize the pre-hospital triage of trauma patients

Pierre Bouzat<sup>1,2\*</sup>, François-Xavier Ageron<sup>3†</sup>, Julien Brun<sup>1</sup>, Albrice Levrat<sup>4</sup>, Marion Berthet<sup>1</sup>, Elisabeth Ran Jean-Marc Thouret<sup>5</sup>, Frederic Thory<sup>7</sup>, Catherine Anvieux<sup>8</sup>, Jean-François Payen<sup>1,2</sup> for TRENAU group

Ageron et al. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*  
(2020) 28:35  
<https://doi.org/10.1186/s13049-020-00730-z>

Scandinavian Journal of Trauma,  
Resuscitation and Emergency Medicine

ORIGINAL RESEARCH

Open Access

## Association of helicopter transportation and improved mortality for patients with major trauma in the northern French Alps trauma system: an observational study based on the TRENAU registry

François-Xavier Ageron<sup>1,2\*</sup>, Guillaume Debatty<sup>3</sup>, Dominique Savary<sup>4</sup>, Frederic Champly<sup>5</sup>, Francois Albasini<sup>6</sup>, Pascal Usseglio<sup>7</sup>, Cécile Vallot<sup>4</sup>, Samuel Galvagno<sup>8</sup>, Pierre Bouzat<sup>1,9</sup> and for the TRENAU Group

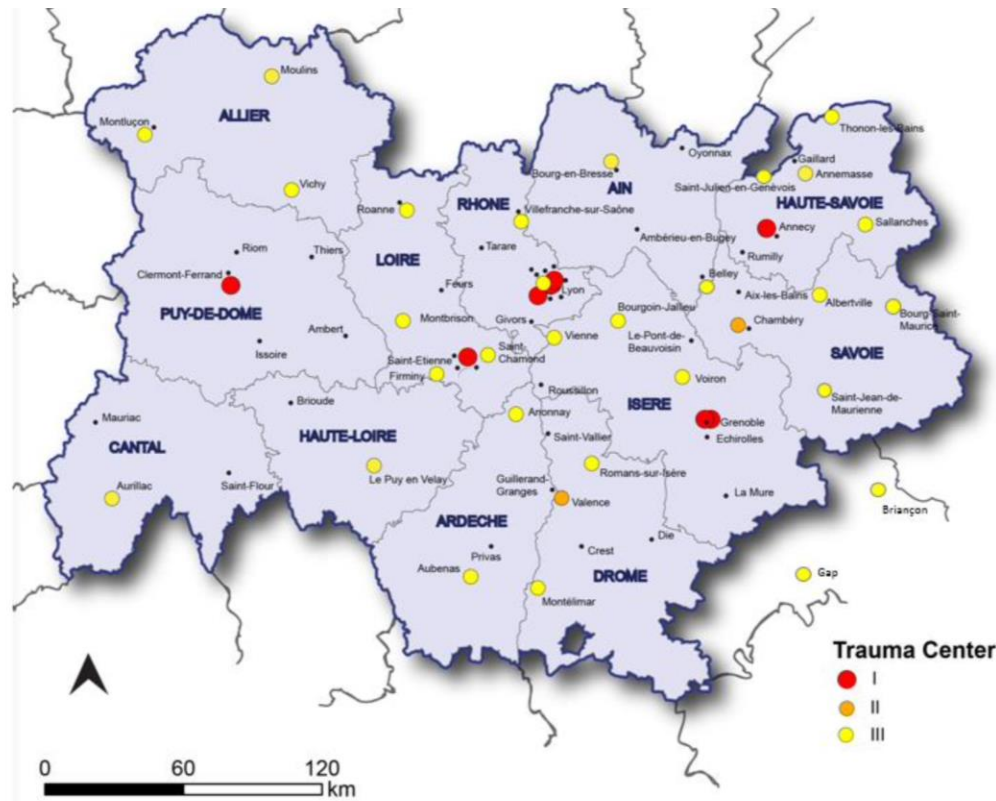
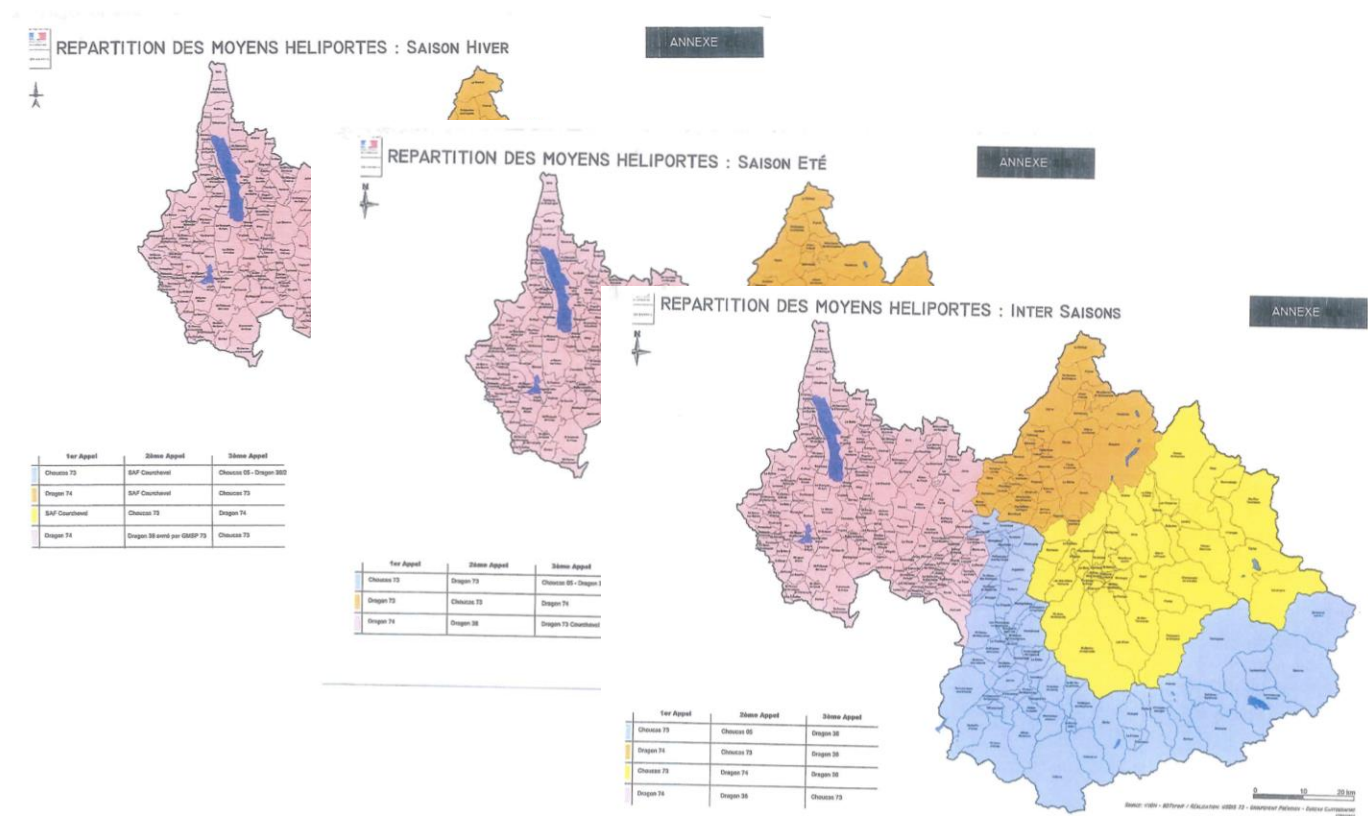


Figure 1. Carte des Centres hospitaliers de la région Auvergne Rhône Alpes.

## PLAN DE SECOURS EN MONTAGNE

VERSION ACTUALISEE  
12 DECEMBRE 2013

2013

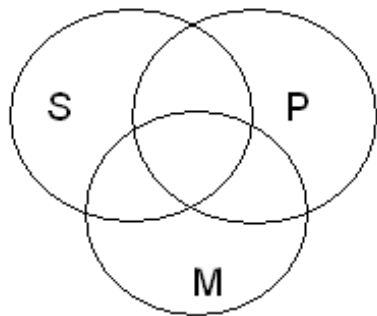




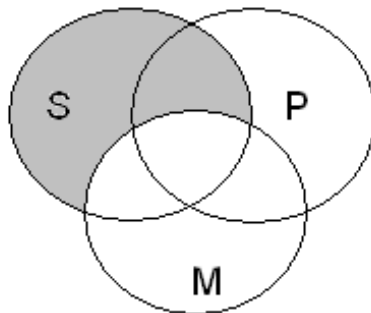


Typical french moutain rescue team

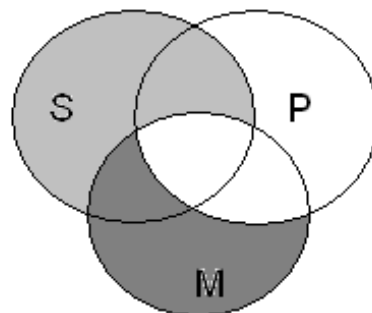




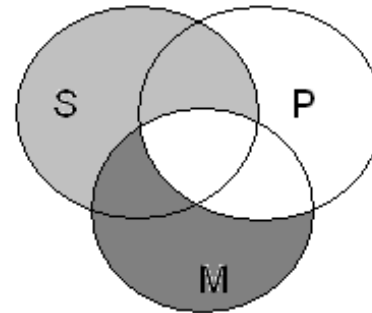
Préparation :  
3 courbes et leurs 7 intersections



*Tous les 'S' sont 'M' :*  
on grise la partie de 'S'  
extérieure à 'M'



*Tous les 'M' sont 'P' :*  
on grise la partie de 'M'  
extérieure à 'P'



*Tout ce qui reste de 'S'  
est inclus dans 'P' :*  
*Tous les 'S' sont 'P'*



# Activity

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- Training +++++++
  - Daily mountain practice
  - Monthly medicalisation simulation session in situ.
  - Seasonally physical and technical test
  - Autumn mass casualties avalanche training
- 650 medical rescues / years
  - Inequal seasonal distribution.







Technical rescue





# Daily working : Medical low intensity

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- **Our work is to give**
    - **Medical check and advices**, reassurance of rescuer and the patient.
    - **Help with technical issues** (general safety , rope work, inking,..).
    - **How and how quick** can we safely move the patient(s) ?
-



# Medical high intensity

- Third line of medicalisation on skiing domain.
  - Traumatic, f.ex collisions or high speed.
  - Medical issues (STEMI, Strokes, burning,,...) who need quick or long-range evacuation.
- Ground EMS and HEMS of the valley.
- Pure hard mountain rescue with a high mortality rate.









# We come-back with experience of

- An extraordinary friendship adventure
- Remote and isolated medicalisation
- On field ICU without nurse?
- Extreme technical and organisational constraints.
- Aeronautical high altitude medical practice.
- Yes we can !



Contents lists available at ScienceDirect

Injury

journal homepage: [www.elsevier.com/locate/injury](http://www.elsevier.com/locate/injury)



Physician staffed helicopter emergency medical systems can provide advanced trauma life support in mountainous and remote areas



Julia Ausserer<sup>a</sup>, Elizabeth Moritz<sup>a</sup>, Matthias Stroehle<sup>a</sup>, Hermann Brugger<sup>b</sup>, Giacomo Strapazzon<sup>b</sup>, Simon Rauch<sup>b</sup>, Peter Mair<sup>a,\*</sup> International Alpine Trauma Registry Study Group<sup>1</sup>

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**Table 3**

Distribution of 72 life-threatening injuries (AIS  $\geq$  4) over body regions in 54 patients admitted to hospital alive.

Body region	Number of injuries $\geq$ AIS 4 (%)
Head/neck	n = 25 (35%)
Face	n = 3 (4%)
Chest	n = 27 (37%)
Abdomen	n = 5 (7%)
Extremities	n = 12 (17%)
External	None

**Table 4**

ATLS interventions at scene (n = 58 patients).

Intervention	Patients (%)
iv line	n = 57 (98%)
Volume resuscitation	n = 48 (83%)
Volume resuscitation $\leq$ 500 ml	n = 26 (45%)
Volume resuscitation 500–1000 ml	n = 12 (21%)
Volume resuscitation > 1000 ml	n = 10 (17%)
iv analgesic drugs	n = 31 (53%)
Endotracheal intubation	n = 21 (36%)
Laryngeal tube/mask	n = 2 (3%)
Tube thoracostomy	n = 2 (3%)

Abbreviations: ATLS, advanced trauma life support; iv, intravenous.





## Alpes : deux avalanches en Savoie font sept morts



Une avalanche. / Photo Pixabay illustration

Nos dernières vidéos



Faits divers, Montagne, France - Monde

Toulouse : environ 200 manifestants contre le passe sanitaire à Jean-Jaurès

Publié le 08/05/2021 à 15:07 , mis à jour à 17:36



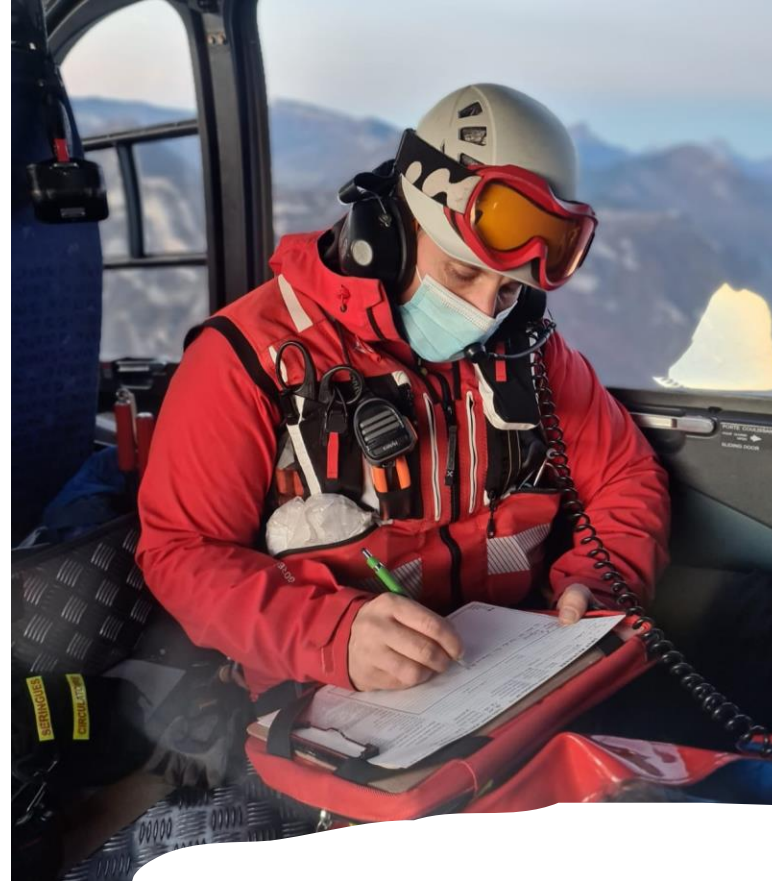
### Deux morts à Courchevel : "Les gens sautaient du 3e étage, c'était horrible !"

Un incendie s'est déclaré ce matin vers 4h30 à Courchevel dans un bâtiment accueillant notamment des travailleurs saisonniers. Le bilan à la mi-journée est toujours de deux morts, 4 personnes blessées grave, dont deux qui se sont défenestrées, et 21 blessés légers.

Jean-François CASANOVA – 20 janv. 2019 à 16:15 | mis à jour le 11 janv. 2021 à 11:20 – Temps de lecture : 4 min







Thank you !