

Advanced medical care in extreme environment

16th–17th October 2023
terraXcube at NOI Techpark
Via Ipazia 2, 39100 Bolzano



Using sophisticated and advanced technologies in the treatment of severely traumatized patients has seen great development in recent years - both in and outside of hospital settings.

Consequently, the outcome of patients with severe trauma has improved due to the introduction and subsequent refinement of methods linked to extra-corporeal circulation (ECMO) as well as the possibility of ceasing heavy abdominal bleeding (REBOA), and being able to perform minithoracotomies and chest drainage, difficult intubations or cricothyroidotomies. This is in part due to increasingly evolved and advanced healthcare education.

The idea of being able to perform such procedures not just in urban settings but also in difficult terrain and extreme conditions, is gaining ground and finding an ever-increasing number of supporters.

However, experiences in this specific field are both still too limited and in need of validation in terms of their feasibility and effectiveness. For this reason, the Eurac Research Institute of Mountain Emergency Medicine and ICAR Medcom, will use the terraXcube to simulate in the most realistic way possible, the application of these methods.

The project will also be supported by several Lombardian emergency departments and the Eurac Research and Varese Università degli Studi dell'Insubria's Master's programme for Mountain Emergency Medicine.

The trials are a starting point for future uses in an increasingly extreme field with the aim of better dealing with accidents and emergency situations that will be increasingly frequent in the future.

WHEN?

16th October 2023 – 9-18h

17th October 2023 – 8.30-17.30h

WHERE?

terraXcube at NOI Techpark, Via Ipazia 2, 39100 Bolzano

WHO?

Physicians and nurses involved in prehospital mountain emergencies

WHAT?

During the simulation days, the participants will:

- Full **mountain rescue scenarios** under difficult environmental conditions in the terraXcube
- **VA-ECMO** cannulation on a high-fidelity manikin and demonstration of the lightest ECMO machine currently available on the market
- **REBOA** placement on a high-fidelity manikin
- **Mini-thoracotomy** and chest tube insertions
- **Difficult intubation** with video-laryngoscopy under normal conditions and extreme cold
- **Front-of-neck access** with scalpel-finger-bougie technique

ORGANIZERS

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SPONSORS/SUPPORT



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