A NEW DEVICE
FOR A NEW RESCUE
PROCEDURE

Vittorio Bellagamba
Thomas Scalisi
Nicola Campani
emergency stretcher

“the perfect device does not exist!”

Nicola Campani
Vittorio Bellagamba
Thomas Scalisi
emergency stretcher

- there are many types available

- problems comes from:
  - dimensions
  - weight
  - load capacity
  - stiffness
  - environment protection capacity
  - strenght
  - reliability
emergency stretcher

the compact/lightweight solution

- carry only the external frame/bag
- stiffen using the “air”

“INFLATABLE BOARD”
Inflatable board limits

* first contemporary patent in 1976

Nicola Campani
Vittorio Bellagamba
Thomas Scalisi
Inflatable board limits

- damages due to abrasion
- need for a pumping system
- keep the right pressure
- load capacity
- stiffness
Pneuspine solutions

* sturdy fabric frame
* different inflation systems
* low pressure safety valve
* new special materials according to the use
* stiffness (in a wide range of pressures)
Pneuspine procedures

✶ spine support into different stretcher
✶ as support of patient body on hoistable bag
✶ swiftwater rescue stretcher
✶ open water rescue emergency stretcher
✶ etc. (following your needs...)
as SKED stretcher spine support
Nicola Campani
Vittorio Bellagamba
Thomas Scalisi

as hoist
ops bag
spine
support
as high altitude expedition emergency stretcher

Tested in ChoOyu 2008 Exp. (camp 1, 6500 m) and Gasherbrum 2011 Exp. (camp 1)
“Northwall Pneuspine”

prototype A
Pneuspine features

- 4.0 kg (8.0 kg with hoist bag)
- 55x12x12 cm (deflated)
- 186x44,5x10 cm (inflated)
- low pressure
- inflatable with any gas (argon suggested)
benefit

- patient “bouncing protection”
- high thermal insulation (argon improved)
- applicable as rescue transfer sheet
- floating
- comfortable
now imagine
new procedures!