NUI COMPACT CHEST COMPRESSION DEVICE
- it’s all about depth
Funding of development

- equinor
- AkerBP
- vår energi
- GASSCO
- subsea 7
- TechnipFMC
Challenges when performing CPR in a diving bell

- Narrow working conditions
- Exhausting over time
- Limited number of first aid personnel
- Vertical patient (diver)
- Insufficient current methods
NUI COMPETENCE

- Emergency medicine
- Saturation diving
- Subsea operations
- Engineering
- Chemistry
- HSEQ
To the drawing board
Equipment in hyperbaric compartments

- Pressure tolerance
- Helium intrusion
- Off-gassing
- Humidity tolerance
- Limited storage space
12M DEVELOPMENT

- Chest belt
- Compression unit
- Hand control unit
Full scale hyperbaric offgass testing

NORSOK U-100
3x drive pressure

500 kg

2x length
Operating sound level reduction

<80 dB
Hyperbaric function testing in heliox 2%

350 msw / 35 bar / 3.5 kPa
Test submerged in water Successful
User tests
NCCD

- Small / Lightweight
- Easy to use
- Low cost

✓ Hyperbaric
✓ Heliox
✓ Vertical
✓ Submerged in water

Result
APPLICATION OF NUI COMPACT CHEST COMPRESSION DEVICE - NCCD

A. Undress the patient’s upper body. Cut off clothes if needed.
B. Apply NCCD as shown in illustrations ①②③④.

If proper application and use of NCCD is not possible, start manual CPR immediately.

VERTICAL PATIENT - APPLY SUPPORT STRAP

post@nui.no
www.nui.no/nccd
NCCD rental concept

- 12 months periods
- Service included

Recommendations DSV
- 1 unit in each bell
- 1 unit in each TUP
- 1 training unit