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O₂ administration by divers/rescue divers : current state & vision of the GenCom NELOS

Dr. Catherine De Maeyer
Geneeskundige Commissie NELOS

Wetenschappelijke vergadering BVOOG

CPR & O₂ Administration according to diving certification level

- CPR and O₂ administration = 1 package
- 1*D: no CPR, no O₂ administration
- 2*D: know, repeat, remember
- 3*D and higher certification levels: understand it, know it, do it

Duiker-Hulpverlener

- Open to divers and non-divers, adult divers and youth divers
- CPR & O₂: understand it, know it, do it
- Examination: theoretical part + practical part (CPR & O₂)
- Duiker-Redder, Hoger-Redder (RedFed)

De ZUURSTOFTOEDIENING (1)

O₂ Step 9a – Zuurstoftoediening met zuurstofmasker

Plaats de leiding van het zuurstofmasker op de fles
Draai de fles open (tegenwijzerzin)
Druk op de fles (drukmeter ± 200 Bar) **OPEN**

Draai de debietmeter open: min 15l/min

Controleer het masker (lekkern en werking)

Plaats het masker goed aansluitend op het gezicht van het slachtoffer (onder de kin – over neusmond)

De ZUURSTOFTOEDIENING (2)

O₂ Step 9b – Zuurstoftoediening met 'On-Demand'-systeem

Plaats het 'On Demand' – systeem op de fles, tenzij reeds aangesloten
Draai de fles open (tegenwijzerzin)
Druk op de fles (drukmeter ± 200 Bar) **OPEN**

Blijf van de debietmeter of zet deze op "NUL"

Controleer het masker (eerst zelf) (lekkern en werking)

Plaats het masker goed aansluitend op het gezicht van het slachtoffer (over neusmond)

Our Vision

- Need and added value of O₂ administration in case of diving accidents has been exhaustively documented
- O₂ administration (in case of diving accidents) saves lives
- The sooner learned, the more routine
- Awareness of the non-exclusively positive effects of oxygen (i.e. COPD, but COPD is a C.I. for diving; cfr. guidelines on oxygen administration)
- ISO-certification ...

ISO 24801-2:2014(E) – (enkele 1°D en 2°D) stelt dat:

7 Required theoretical knowledge

7.1 Equipment

Students shall have an appropriate knowledge concerning the physical characteristics, operating principles, maintenance and use of the following equipment items:

- mask;
- fins;
- snorkel;
- diving lights;
- quick release weight systems;
- float, flag and marker buoy;
- cylinders;
- cylinder valves;
- regulators;
- submersible pressure gauge (breathing gas pressure monitor);
- alternative breathing gas source;
- cylinder support systems;
- buoyancy control devices;
- timing device;
- under-water navigational aids;
- depth gauge/depth monitor;
- dive tables;
- dive computers;
- knife/cutting devices;
- lights;
- emergency signalling device (acoustical, optical);
- first aid and oxygen 
- personal diving log.

7.5 Medical problems related to diving
...

7.5.4 First aid after diving incidents:

- cardio-pulmonary resuscitation (CPR);
- normobaric oxygen first aid.

ISO 24801-3:2014(E) – (enkele 3°D en 4°D) stelt dat:

9.5 Emergency oxygen administration

Students shall have completed training in emergency administration of oxygen. This training shall include theoretical instruction of the medical principles involved and practical tuition on the use of an emergency oxygen unit.

ISO 24801-1:2014(E) – (enkele A1 en ISO 24802-2:2014(E) – (enkele 1°) stelt dat:

11.3 Oxygen administration

Instructor candidates shall be competent in the emergency administration of oxygen. This shall include knowledge of the medical principles involved and practical use of an emergency oxygen unit.



Our Worries

We need a legally supported framework to protect our

- Divers
- But also: the people who are teaching O₂ administration : duiker-hulpverleners, duiker-redders, hoger redders

What about 'negligence' in case of an accident with refusal to administer oxygen ...

