

CPREzy™ improves chest compressions: Acceptance and benefit from different users point of view



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Purpose of the study. . .

External chest compressions (ECC) are an essential part of cardiopulmonary resuscitation and are usually performed without any adjuncts. The CPREzy™ pad is a simple device to help in ECC-performance. The improvement of ECC with this device has previously been shown. We looked at two comparable subgroups of our former CPREzy-studies in respect of concordance between skill improvement and acceptance of the device.

Material and Methods. . .

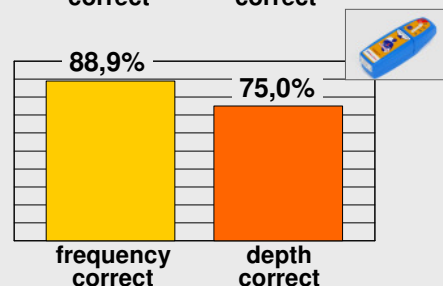
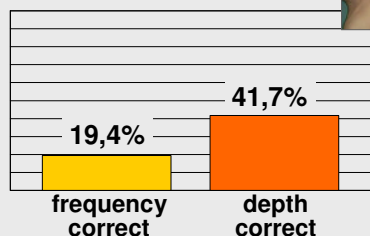
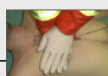
In the first study a subgroup of 36 laypersons performed classic ECC on a manikin followed by ECC with CPREzy. In the second study a subgroup of 41 healthcare professionals (who had a slightly different study design) did the same. Endpoints were a rate of ECC between 90 and 110/min and a compression depth between 40 and 50 mm. After using CPREzy - without knowing the results of their own performance - both groups answered an anonymous questionnaire about their personal confidence in the device.

Results. . .

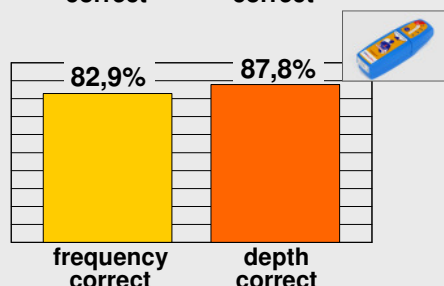
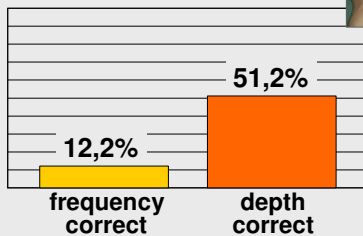
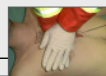
Both groups performed badly without CPREzy and improved significantly when using the device. See graphics for details.

Subgroup study results

Laypersons

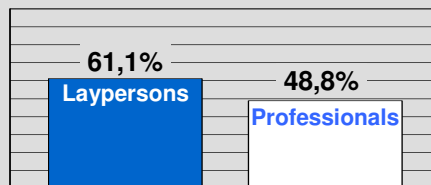


Professionals

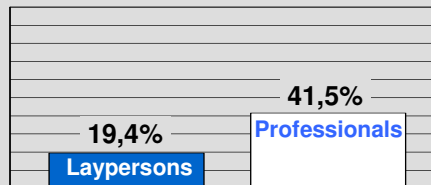


Questionnaire

I would use CPREzy in a cardiac arrest



I felt handicapped using CPREzy



Conclusions. . .

More than ever we know about the importance of ECC. Therefore it is a major finding that CPREzy improves ECC performed by both professionals and laypersons. These findings have to be announced more clearly to convince the healthcare professionals in particular that they benefit from guidance during ECC yet.

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