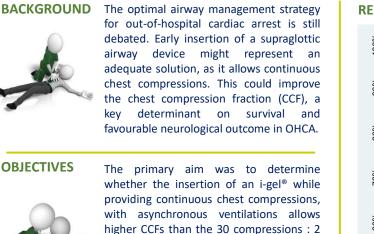
Effect of Early Supraglottic Airway Device Insertion on Chest Compression Fraction during Simulated Out-of-Hospital Cardiac Arrest: Randomised Controlled Trial

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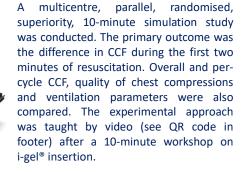


The secondary aims was to assess the learning path in the naive population, and to assess CPR quality and ventilation parameters.

bag-valve-mask ventilations scheme in a

simulated OHCA.

METHODS



PERSPECTIVES



EMTs applying the experimental approach achieved a higher CCF and enhanced ventilation parameters than those applying their standard of care, without delaying time to critical actions. However, the shallower chest compressions found in the i-gel<sup>®</sup> group deserve further investigation, as the depth of compressions is a key component of cardiopulmonary resuscitation.

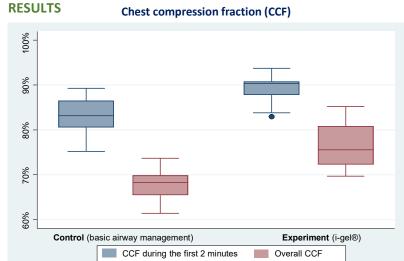
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After minimal training, paramedics and

Three interesting perspectives would be to assess the same approach 1) in a pediatric setting, 2) with first responders, and 3) in a clinical study.

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Secondary outcomes			
Outcome	<b>Control</b> ( <i>n</i> = 13 teams)	<b>Experiment</b> ( <i>n</i> = 13 teams)	<i>p</i> -value
Successful insertion - At first pass - At second pass	NA	11/13 2/13	NA
QUALITY OF CHEST COMPRESSIONS			
Compression depth <sup>1</sup>	5.2 cm [4.9;5.3]	4.6 cm [4.3;5.0]	0.007
Proportion within target (5 to 6 cm) <sup>2</sup>	67% (52-81)	42% (28-55)	0.01
Compression rate <sup>2</sup>	115 cpm (110-119)	116 cpm (112-120)	0.65
Full chest recoil <sup>1</sup>	99% [92;100]	98% [87;100]	0.90
CRITICAL ACTIONS			
Time to first shock <sup>2</sup>	41 s (35-47)	42 s (36-47)	0.85
Time to first ventilation <sup>1</sup>	103 s [93;110]	109 s [90;127]	0.74
Defibrillation attempts <sup>1</sup>	4 [4;5]	5 [4;5]	0.05
VENTILATION PARAMETERS			
Ventilations provided <sup>2</sup>	19 (16-23)	39 (33-46)	<0.001
Minute ventilation <sup>1</sup>	794 mL/min [689;1285]	2374 mL/min [2134;2672]	< 0.001
Proportion within target (300 to 700	82% [65;86]	95% [89;98]	0.003

<sup>1</sup>Median [Q1;Q3] <sup>2</sup>Mean (95%Cl)



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