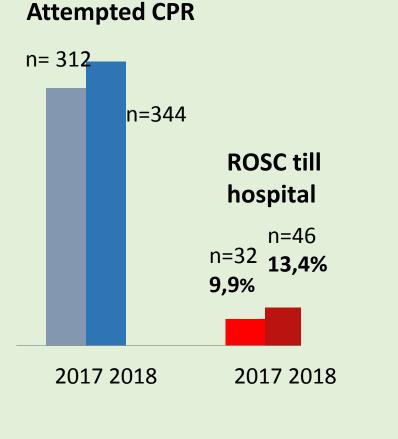
Did education take part in improving out of hospital cardiac arrest outcomes?

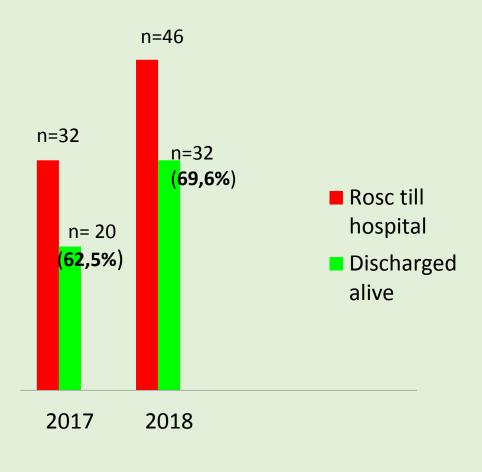
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INTRODUCTION: Emergency medical service in Split – Dalmatian County is two-tier system - in Split it consists of three Team 1 (T1 - physician, emergency medicine technician - EMT, driver with no former medical education) and Team 2 (T2 - two EMT), taking care of 454229 Since 2016 all team inhabitants. members (280) working in Institute for Emergency Medicine Split-Dalmatian County have passed standardized education in skills and procedures according to recent guidelines resuscitation and competencies. We tried to assess if education contributed had to improved results considering return of spontaneus circulation (ROSC) maintained until transfer to Clinical Hospital Centre Split.

<u>RESULTS</u>: In 2017 were 312 attempted CPR, 32 ROSC till hospital (9.9%), 20 were discharged home alive (62,5% of ROSC till hospital, 6.4% of attempted CPR). 15 patients (46,9%) had advanced airway (11 SGA+ 4 ETI). In 2018 there were 344 attempted CPR, 46 ROSC till hospital (13,4%), 32 were discharged home alive (69,6% of ROSC till hospital, 9.3 % of attempted CPR). 36 patients (78,2%) had advanced airway (26 SGA + 10 ETI). Rosc till hospital raised for 3,5% (X² p>0,05). Discharged from hospital alive in 2018 improved for 7,1 % considering ROSC till hospital, and 2,9% according to attempted CPR.





METHODS: We have compared Utstein forms for 2017 and 2018 year – number of attempted cardiopulmonal resuscitation (CPR), ROSC till hospital, application of advanced airway devices (supraglottic device SGA, endotracheal intubation ETI). Outcomes were ROSC sustained till hospital and discharge from hospital. Cardiac arrests caused by trauma were excluded. Significance was tested by X² test.

CONCLUSION: Although the raise of ROSC till hospital is not statistically significant, we believe it is associated with continuous education and skill training. Future monitoring of is necessary including outcome other quality indicators following besides skill training of EMS in field (time of 1st defibrillation, continuous compression, chest managing but also dispatcher CPR airway), instructions, time of arrival as well as Emergency with communication Department in Clinical hospital Centre Split so that conclusion on better outcome is based on stronger evidence.

