What do pupils of Surgut schools know and what skills do they have in terms of BLS modern algorithms

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Relevance of the research:

Out-of-hospital cardiac arrests (per year):

Russia ~350 000
Surgut ~200
Europe ~350 000¹⁻²

Survival after cardiac arrest:

1/10 of victims (Russia)
Russia ~35 000
Surgut ~20

Purpose of the study

To increase the level of competence among high school students in Surgut on modern BLS algorithms.

Materials and methods

204 high school students have been involved in research at the age of 16 - 17 years. At the first investigation phase, we had a public opinion poll for high school students about their knowledge and abilities on BLS. Then we chose those (n=44) who have answered that they can make BLS. We checked the practical skills of using BLS on a dummy on a procedure of providers ERC (2015). At a following stage this group had the master class on modern algorithms BLS (ERC, 2015) that was made by studied peers.

Results of the study

By results of questioning of 76,5% (n=156) high school students know about BLS. From them 41,7% (n=65) have specified in knowledge of modern algorithm of BLS. It is 31,9% of all students. Ability to make BLS has noted in the questionnaires of 21,6% (n=44) respondents. The check of practical skills at group of students (n=44), who specified ability presence to make BLS, on a dummy under last ERC recommendations has shown that nobody of students had that skill. The master class that was made at last stage, supervised by studied peers on BLS under recommendations ERC 2015 has allowed to generate modern representation at high school students on algorithm BLS taking into last recommendations (ERC).

The conclusion

The result of this research has shown extremely low level of competence of schoolboys of a Surgut city on modern BLS algorithms. Popularization by studied peers and practice using of modern methods form needed level of competence of the students.

Sources:

1) Hasselqvist-Ax., I., Early cardiopulmonary resuscitation in out-of-hospital cardiac arrest. 2015
2) Wissenberg, M. Association of national initiatives to improve cardiac arrest management with rates of bystander intervention and patient survival after out-of-hospital cardiac arrest. 2013