Chest-compression-only versus standard CPR.
Alexis Descatha, Daniel Jost

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Caution with conclusion of observational studies in meta-analysis on instruction for bystanders who started cardiopulmonary resuscitation

Descatha Alexis\(^1,2,3\), Daniel Jost\(^4,5\)

1. Inserm U1018, Centre for research in Epidemiology and Population Health, Epidemiology of occupational and social determinants of health, Villejuif, France ;
2. Université de Versailles St-Quentin, UMRS 1018, France ;
3. AP-HP, Poincaré University Hospital, Occupational health department/ EMS92 (SAMU92), Garches, France.
4. Service médical d’urgence – Brigade de sapeurs pompiers de Paris (Paris Fire Brigade)– 1 place Jules Renard 75017 Paris- France
5. Département d’Epidémiologie et de Santé Publique Nord, Ecole du Val-de-Grâce, Paris, France

**Corresponding author.** Alexis Descatha MD PhD, Inserm U1018, UVSQ, Unité de pathologie professionnelle SAMU92, CHU Poincaré, 104 bd Poincaré, 92380 Garches, France

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Tel: +33 (1) 47 10 77 54; Fax: +33 (1) 47 10 77 68; email: alexis.descatha@rpc.aphp.fr

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Sir,

we read with a particular interest the well-conducted meta-analysis performed by Hüpf, et al (1). However, we feel there is a difference between comparing bystander cardiopulmonary resuscitation (CPR, hands-only and traditional) and what authors concluded the instructions to bystanders from emergency medical services. In the three RCT, the inclusion criteria was clearly randomized instructions given by emergency medical services (2-4). However, in the presented epidemiological studies, the choice of CPR method by bystanders (instruction from EMS or own decision) was unclear at least for 6 on the 7 studies selected (5-10). Furthermore, in these observational studies, the reasons of not to perform complete CPR by bystanders are probably important and might lead to biased conclusions (and probably explained the unspooled meta-analysis in this part). For instance, delay of initiation CPR, level of training of the bystanders, and relationship between the bystander and the victim could influence the choice of CPR and survival (10). A trend for better survival was observed for complete CPR than hands-only recently (11;12). Actually, the study was conducted in a country with a low level of awareness of first-aid in the general population, and complete CPR was here a proxy of a better knowledge of basic life support.

In conclusion, we feel that authors should be more careful in the conclusion of their meta-analysis of observational part. We also feel one important perspective could be added about spreading of basic life support and studies on influence of this knowledge on hands-only CPR assisted by dispatcher.

References


