

Rapid ambulance response improves survival after sudden out-of-hospital cardiac arrest

October 1 2018



Credit: CC0 Public Domain

Shorter ambulance response times are associated with a higher rate of survival in patients with sudden out-of-hospital cardiac arrest. The later discharge rate is also affected substantially by bystander resuscitation

measures at the site of the incident. These are the results of a cohort study reported in the current issue of *Deutsches Ärzteblatt International*.

The working group of Andreas Bürger and Jan Wnent evaluated 10 853 data sets from the German Resuscitation Registry for the years 2010-2016. Longer ambulance response times meant less successful resuscitation attempts: without [bystander](#) resuscitation and a mean response time of 1 minute and 10 seconds, the discharge rate fell from 12.9% to 6.4%; with bystander resuscitation and a comparable mean response time, the discharge rate fell from 22% to 14%. Shorter response times meant that resuscitation was started earlier and the [discharge](#) rate with good neurological outcomes was higher. The projected results for shortening the individual response time by 10%, 20%, or 30% in Germany would mean that 370, 515, or 634 additional patients would survive every year.

The authors conclude that on the basis of these data, additional attempts should be made to shorten ambulance response times and the time to resuscitation. They propose that for all of Germany, a standardized [response](#) time of 85% within 8 minutes should be achieved. Furthermore, they request improvements in the rates and quality of bystander [resuscitation](#).

More information: Andreas Bürger et al. The effect of ambulance response time on survival following out-of-hospital cardiac arrest, *Deutsches Aertzteblatt Online* (2018). [DOI: 10.3238/arztebl.2018.0541](https://doi.org/10.3238/arztebl.2018.0541)

Provided by Deutsches Aertzteblatt International

Citation: Rapid ambulance response improves survival after sudden out-of-hospital cardiac arrest (2018, October 1) retrieved 5 May 2024 from <https://medicalxpress.com/news/2018-10-rapid->

[ambulance-response-survival-sudden.html](http://www.medicalpress.com/ambulance-response-survival-sudden.html)

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.