

Fischer M, Wnent J, Gräsner J-T, Seewald S, Rück L, Hoffman H et al: Jahresbericht des Deutschen Reanimationsregisters: Außerklinische Reanimation im Notarzt- und Rettungsdienst 2024. *Anästh Intensivmed* 2025;66:V99–V109. DOI: 10.19224/ai2025.V99; Available from: <https://www.reanimationsregister.de/downloads/oeffentliche-jahresberichte/oeffentliche-jahresberichte-ausserklinische-reanimation/374-a-i-07-08-2025-ausserklinische-reanimation-2024>

Gräsner, J.T., Wnent, J., Lefering, R., Herlitz, J., Masterson, S., Maurer, H., Perkins, G.D., Ortiz, F.R., Tjelmeland, I.B.M., Kamishi, D., Moertl, M., Mols, P., Alihodzic, H., Ioannides, M., Truhlar, A., Baert, V., Nikolaou, N., Molnar, N., Jonsson, B.S., Semeraro, F., Kriksionaitiene, A., Clarens, C., Giordimaina, C., Stieglis, R., Zadlo, A., Correia, V.H., Cimpoesu, D., Raffay, V., Trenkler, S., Strnad, M., Ruiz, J.I., Stromsoe, A., Wilmes, A., Booth, S., Bossaert, L., *European registry of cardiac arrest study THREE (EuReCa- THREE) – EMS response time influence on outcome in Europe*, *Resuscitation* 2025 15.07.2025; Available from: [https://www.resuscitationjournal.com/article/S0300-9572\(25\)00216-3/abstract](https://www.resuscitationjournal.com/article/S0300-9572(25)00216-3/abstract)

Katzenschlager, S., Kaltschmidt, N., Orlob, S., Weilbacher, F., Huck, M., Seewald, S., Rück, L., Hoffmann, H., Popp, E., Gräsner, J.T., Wnent, J., *Factors for good neurological outcome in adult OHCA with initial shockable rhythm: a retrospective multicenter cohort study from the German Resuscitation Registry*, *Resuscitation Plus* 25 (2025) 101022 14.07.2025; Available from: <https://www.sciencedirect.com/science/article/pii/S2666520425001596?via%3Dihub>

Hoffmann, H., Gräsner, J.T., Rück, L., Bein, B., Bohn, A., Fischer, M., Ramshorn-Zimmer, A., Seewald, S., Wnent, J., *Smartphone-basierte Ersthelfenden-Alarmierung Erfassung im Deutschen Reanimationsregister*, *Anästh Intensivmed* 2025. **66**: p. 67-71 14.05.2025; Available from: <https://www.ai-online.info/archiv/2025/05-2025/smartphone-basierte-ersthelfenden-alarmierung-erfassung-im-deutschen-reanimationsregister.html?backto=107>

DGAI. *Zahlen des Deutschen Reanimationsregisters für 2024: Quote der Ersthelfenden steigt erstmals seit Jahren*. 2025 07.05.2025 [cited 2025 20.05.2025]; Available from: <https://www.dgai.de/aktuelles-patientinnen-projekte/pressemitteilungen/2376-zahlen-des>.

Rück, L., Gistrichovsky, M., Gräsner, J.T., Hoffmann, H., Krösbacher, A., Maurer, A., Wnent, J., *Datensatz-Revision des Zusatzmoduls Telefonreanimation (T-CPR)*, *Anästh Intensivmed* 202. 11.02.2025 **5**(66): p. 17–20; Available from: <https://www.ai-online.info/archiv/2025/02-2025/datensatz-revision-des-zusatzmoduls-telefonreanimation-t-cpr.html?backto=107>

Rücker, G., et al., *Der aktuelle Umsetzungsstand von Wiederbelebungsunterricht in Schulen in Deutschland – Umfrageergebnisse einer Abfrage der Ministerien aller Bundesländer*. *Notfall + Rettungsmedizin*, 2024. **27**(2): p. 143-148.

Kehlert, J., et al., *Evaluation of a 90-minute school-based resuscitation course with 340 middle school students – a multicenter intervention study*. *International Journal of First Aid Education*, 2024. **7**(1).

Gräsner, J.T., et al., [Resuscitation Update - What's New?]. *Anesthesiol Intensivmed Notfallmed Schmerzther*, 2024. **59**(4): p. 214-225.

Fischer, M., et al., *Jahresbericht des Deutschen Reanimationsregisters: Außerklinische Reanimation im Notarzt- und Rettungsdienst 2023*. *AnästH Intensivmed* 2024, 2024. **65**(06.2024): p.:V101–V110.

Wnent J, Gräsner JT, Fischer M, Ramshorn-Zimmer A, Bohn A, Bein B, Seewald S, *The German Resuscitation Registry – Epidemiological data for out-of-hospital and in-hospital cardiac arrest*. *Resuscitation Plus* 18, 2024. **100638** (18.04.2024): p.:V101–V110; Available from: <https://www.sciencedirect.com/science/article/pii/S2666520424000894?via%3Dihub>

Ein Leben retten. 100 pro Reanimation. Eine Initiative von DGAI, BDA, GRC und Stiftung für Anästhesiologie. 2023 [cited 11.05.2023]; Available from: <https://www.einlebenretten.de/aktionen.html>.

Schroeder, D.C., et al., *KIDS SAVE LIVES: Basic Life Support Education for Schoolchildren: A Narrative Review and Scientific Statement From the International Liaison Committee on Resuscitation*. *Circulation*, 2023. **147**(24): p. 1854-1868.

Tjelmeland, I.B.M., Wnent, J., Masterson, S., Kramer-Johansen, J., Ong, M.E.H., Smith, K., Skogvollm, E., Lefering, R., Lim, S.L., Liu, N., Dicker, B., Swain, A., Ball, S., Gräsner, J.T., *Did lockdown influence bystanders' willingness to perform cardiopulmonary resuscitation? A worldwide registry-based perspective*. *Resuscitation*. 2023 May (16.03.2025); **186**: 109757; Available from: <https://linkinghub.elsevier.com/retrieve/pii/S0300957223000771>

Schroeder, D.C., et al., *Education of schoolchildren in cardiopulmonary resuscitation – overview of the current literature*. *Current Opinion in Critical Care*, 2023. **29**(6): p. 616-620.

Fischer, M., Wnent, J., Gräsner, J.-T., Seewald, S., Brenner, S., Bein, B., Ristau, P., Bohn, A., *Jahresbericht des Deutschen Reanimationsregisters – Außerklinische Reanimation im Notarzt- und Rettungsdienst 2022*. *AnästH Intensivmed* 2023 (01.09.2023); **64**: V161–V169; Available from: <https://www.reanimationsregister.de/downloads/publikationen/publikationen-2023/96-jahresbericht-des-deutschen-reanimationsregisters-ausserklinische-reanimation-im-notarzt-und-rettungsdienst-2022/file.html>

Gross, B., Büchner, J., Coldewey, S., Gerecke, U., Buchholz, M., Bein, B., *Leben retten ist eine Bürgerkompetenz – Jeder muss es können! These 3 der Bad Boller Reanimations- und Notfallgespräche 2023*. *AnästH Intensivmed* 2023 (01.12.2023); **64**: p. 500–503; Available from: <https://www.reanimationsregister.de/downloads/publikationen/publikationen-2023/182-leben-retten-ist-eine-buergerkompetenz-jeder-muss-es-koennen-these-3-der-bad-boller-reanimations-und-notfallgespraeche-2023/file.html>

Nishiyama, C., et al., *Three-year trends in out-of-hospital cardiac arrest across the world: Second report from the International Liaison Committee on Resuscitation (ILCOR)*. *Resuscitation*, 2023

(28.02.2023). **186**: p. 109757); Available from:

<https://linkinghub.elsevier.com/retrieve/pii/S0300957223000709>

Metelmann, C., J. Wnent, and O. Kofler, *Präklinische Versorgung des Herz-Kreislauf-Stillstandes mit und ohne extrakorporales Life-Support-System (ECLS)*. Anästh Intensivmed, 2023. **64**: p. 94–103).

Ramshorn-Zimmer, A., Bohn, A., Dormann, H., Wolcke, B., Wurmb, T., Gräsner, J.T., *Team for survival – nur die gemeinsame Vision kann Leben retten. These 5 der Bad Boller Reanimations- und Notfallgespräche 2023*. Anästh Intensivmed 2023. **64**: p. 507–510; Available from: <https://www.reanimationsregister.de/downloads/publikationen/publikationen-2023/180-team-for-survival-nur-die-gemeinsame-vision-kann-leben-retten-these-5-der-bad-boller-reanimations-und-notfallgespraeche-2023/file.html>

Marijon, E., et al., *The Lancet Commission to reduce the global burden of sudden cardiac death: a call for multidisciplinary action*. Lancet, 2023. **402**(10405): p. 883-936.

Jensen, T.W., et al., *Training in Basic Life Support and Bystander-Performed Cardiopulmonary Resuscitation and Survival in Out-of-Hospital Cardiac Arrests in Denmark, 2005 to 2019*. JAMA Netw Open, 2023. **6**(3): p. e233338.

Horriar, L., et al., *A narrative review of European public awareness initiatives for cardiac arrest*. Resusc Plus, 2023. **14**: p. 100390).

GRC. *Arbeitsgruppen und Projekte des GRC*. 2023 [cited 15.05.2023]; Available from: <https://www.grc-org.de/arbeitsgruppen-projekte>.

Gräsner, J.-T., et al., *Letter to the Editor, regarding the article "German Cardiac arrest Registry: rationale and design of G-CAR"*. Clinical Research in Cardiology, 2023. **112**(4): p. 566-567.

Awad, E., et al., *Provision of bystander CPR for out-of-hospital cardiac arrest in the Middle East: a retrospective gender-based analysis*. International Journal of Emergency Medicine, 2023. **16**.

Hubar, I., Fischer, M., Monaco, T., Gräsner, J.T., Westenfeld R, Bernhard M, *Development of the epidemiology and outcomes of out-of-hospital cardiac arrest using data from the German Resuscitation Register over a 15-year period (EpiCPR study)*. Resuscitation. 2023 (31.12.2022); **182**: 109648; Available from: <https://pubmed.ncbi.nlm.nih.gov/36423737/>

Zenani, N.E., et al., *Effectiveness of school-based CPR training among adolescents to enhance knowledge and skills in CPR: A systematic review*. Curationis, 2022. **45**(1): p. e1-e9.

Wyckoff, M.H., et al., *2021 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science With Treatment Recommendations: Summary From the Basic Life Support; Advanced Life Support; Neonatal Life Support; Education, Implementation, and*

Teams; First Aid Task Forces; and the COVID-19 Working Group. *Circulation*, 2022. **145**(9): p. e645-e721.

Fischer, M., Wnent, J., Gräsner, J.T., Seewald, St., Brenner, S., Bein, B., *Jahresbericht des Deutschen Reanimationsregisters – Außerklinische Reanimation 2021*. *Anästhesiologie Intensivmedizin*, 2022 (01.06.2022). **63**: V116–V122; Available from: <https://www.reanimationsregister.de/downloads/publikationen/publikationen-2022/115-jahresbericht-des-deutschen-reanimationsregisters-ausserklinische-reanimation-2021/file.html>

Uny, I., et al., *Barriers and facilitators to delivering bystander cardiopulmonary resuscitation in deprived communities: a systematic review*. *Perspectives in Public Health*, 2022: p. 17579139211055497.

Rücker, G., et al., *Der aktuelle Umsetzungsstand von Wiederbelebungsunterricht in Schulen in Deutschland – Umfrageergebnisse einer Abfrage der Ministerien aller Bundesländer Current status of implementation of cardiopulmonary resuscitation training in schools in Germany—results of a survey of ministries of all German states*. *Notfall + Rettungsmedizin*, 2022.

Nabecker, S., et al., *Piloting a Basic Life Support instructor course: A short report*. *Resuscitation Plus*, 2022. **12**: p. 100325.

Liu, N., et al., *Gender disparities among adult recipients of layperson bystander cardiopulmonary resuscitation by location of cardiac arrest in Pan-Asian communities: A registry-based study*. *eClinicalMedicine*, 2022. **44**: p. 101293).

Juul Grabmayr, A., et al., *Contemporary levels of cardiopulmonary resuscitation training in Denmark*. *Resuscitation Plus*, 2022. **11**: p. 100268.

Jerkeman, M., et al., *Trends in survival after cardiac arrest: a Swedish nationwide study over 30 years*. *European Heart Journal*, 2022. **43**(46): p. 4817-4829).

Inaba, H., et al., *Impact of the COVID-19 pandemic on bystander cardiopulmonary resuscitation: a systematic review of observational studies and presentation of a strategy to augment the quality of bystander cardiopulmonary resuscitation*. *Niigata Journal of Health and Welfare*, 2022. **21**(2): p. 52-63.

Horriar, L., N. Rott, and B.W. Böttiger, *The new 2021 resuscitation guidelines and the importance of lay resuscitation*. *Bundesgesundheitsblatt Gesundheitsforschung Gesundheitsschutz*, 2022. **65**(10): p. 972-978.

Heidenreich, P.A., et al., *2022 AHA/ACC/HFSA Guideline for the Management of Heart Failure: A Report of the American College of Cardiology/American Heart Association Joint Committee on Clinical Practice Guidelines*. *Circulation*, 2022. **145**(18): p. e895-e1032.

Deutsches_Ärzteblatt. 84.972 Stimmen für Wiederbelebungsunterricht an Schulen. 2022 [11.05.2022 24.05.2023]; Available from: <https://www.aerzteblatt.de/nachrichten/134131/84-972-Stimmen-fuer-Wiederbelebungsunterricht-an-Schulen>.

Tjelmeland, I., Kramer-Johansen, J., Gräsner, J.T., Seewald, S., *Comparing EMS witnessed cardiac arrest in Germany and Norway*. Circulation, (15.12.2021), **144**(Suppl_2); Available from: https://www.ahajournals.org/doi/10.1161/circ.144.suppl_2.12233

Dainty, K.N., et al., *Understanding the Importance of the Lay Responder Experience in Out-of-Hospital Cardiac Arrest: A Scientific Statement From the American Heart Association*. Circulation, 2022. **145**(17): p. e852-e867.

Wnent, J., et al., *To ventilate or not to ventilate during bystander CPR — A EuReCa TWO analysis*. Resuscitation, 2021 (16.05.2021). **166**: p. 101-109; Available from: <https://linkinghub.elsevier.com/retrieve/pii/S030095722100229X>

Varela-Casal, C., et al., *Teaching Basic Life Support to 5- to 8-Year-Old Children: A Cluster Randomized Trial*. Pediatrics, 2021. **148**(4).

Souers, A., et al., *Bystander CPR occurrences in out of hospital cardiac arrest between sexes*. Resuscitation, 2021. **166**: p. 1-6).

Skivington, K., et al., *A new framework for developing and evaluating complex interventions: update of Medical Research Council guidance*. Bmj, 2021. **374**: p. n2061.

Schmitt, D. and G. Güder, *Die akute Herzinsuffizienz: weit mehr als nur ein kardiales Problem*. Notfallmedizin up2date, 2021. **16**(03): p. 299-321.

Reuter, P.-G., et al., *A national population-based study of patients, bystanders and contextual factors associated with resuscitation in witnessed cardiac arrest: insight from the french RéAC registry*. BMC Public Health, 2021. **21**.

Perkins, G.D., et al., *European Resuscitation Council Guidelines 2021: Executive summary*. Resuscitation, 2021. **161**: p. 1-60.

Olasveengen, T.M., et al., *Basismaßnahmen zur Wiederbelebung Erwachsener (Basic Life Support)*. Notfall + Rettungsmedizin, 2021. **24**(4): p. 386-405.

Olasveengen, T.M., et al., *[Basic life support]*. Notf Rett Med, 2021. **24**(4): p. 386-405.

GRC. *#ichrettedeinleben: Petition sammelt mehr als 50.000 Stimmen – Politik signalisiert Unterstützung*. 2021 25.10.2021] 24.05.2023]; Available from:

https://www.grc-org.de/files/Newsreleases/document/GRC_Pressemitteilung_ichrettedeinleben.pdf.

GRC. *Reanimation 2021 – Leitlinien kompakt*. 2021 [23.05.2023]; Available from: https://www.grc-org.de/downloads/Leitlinien%20kompakt_26.04.2022.pdf.

Gräsner, J.-T., et al., *European Resuscitation Council Guidelines 2021: Epidemiology of cardiac arrest in Europe*. Resuscitation, 2021. **161**: p. 61-79.

Gräsner, J.-T., et al., *Epidemiologie des Kreislaufstillstands in Europa*. Notfall + Rettungsmedizin, 2021. **24**(4): p. 346-366.

Felzen, M., et al., *Evaluation des Projekts zur Einführung von Laienreanimation an Schulen in Nordrhein-Westfalen*. Der Anaesthesist, 2021. **70**(5): p. 383-391.

Dumcke, R., Rahe-Meyer, N. & Wegner, C., *Does age still matter? An age-group comparison of self-efficacy, initial interest and performance when learning bystander resuscitation in secondary schools*. International Journal of First Aid Education, 2021. **4**(1): p. 5-22.

Fischer, M., Wnent, J., Gräsner, J.T., Seewald, S., Brenner, S., Bein, B., Ristau, P., Bohn, A., *Jahresbericht des Deutschen Reanimationsregisters – Außerklinische Reanimation 2020*. Anästh Intensivmed 2021 (01.09.2021). **62**: V68–V73; Available from: <https://www.reanimationsregister.de/downloads/publikationen/publikationen-2021/134-jahresbericht-des-deutschen-reanimationsregisters-ausserklinische-reanimation-2020/file.html>

Schiefer, J.L., et al., *Basic life support knowledge in Germany and the influences of demographic factors*. PLoS One, 2020. **15**(8): p. e0237751.

Lang, S., *Das reanimationsfreie Intervall: Bedeutung auf das Überleben und Möglichkeiten zur Beeinflussung : eine Analyse aus dem Deutschen Reanimationsregister*. Medizinische Fakultät der Universität Ulm, Dissertation, 25.10.2020; Available from: <https://www.reanimationsregister.de/downloads/publikationen/publikationen-2020/368-das-reanimationsfreie-intervall-bedeutung-auf-das-ueberleben-und-moeglichkeiten-zur-beeinflussung-eine-analyse-aus-dem-deutschen-reanimationsregister/file.html>

Nolen, L., *How Medical Education Is Missing the Bull’s-eye*. New England Journal of Medicine, 2020. **382**(26): p. 2489-2491.

Kiguchi, T., et al., *Out-of-hospital cardiac arrest across the World: First report from the International Liaison Committee on Resuscitation (ILCOR)*. Resuscitation, 2020. **152**: p. 39-49).

Gräsner, J.T., et al., *Survival after out-of-hospital cardiac arrest in Europe - Results of the EuReCa TWO study*. Resuscitation, 2020. **148**: p. 218-226).

Gässler, H., et al., *Überleben nach Laienreanimation*. Dtsch Arztebl International, 2020. **117**(51-52): p. 871-7.

DRK. *DRK rät zu Auffrischung der Erste-Hilfe-Kenntnisse alle zwei Jahre*. 2020 11.09.2020 [cited 2025 17.06.2025]; 051/20; Available from:
<https://www.drk.de/presse/pressemitteilungen/meldung/drk-raet-zu-auffrischung-der-erste-hilfe-kenntnisse-alle-zwei-jahre/>.

Die_Techniker. *Studie: Jeder Vierte in Deutschland traut sich nicht zu, Erste Hilfe zu leisten*. 2020 23.05.2023]; Available from:
https://www.tk.de/presse/mediathek/themen-gesundheitswesen/erste-hilfe-album-2093308#g-mediengalerie_nutzungsbedingungen.

Deutsches_Ärzteblatt. *Jeder Vierte hat Angst, erste Hilfe zu leisten*. 2020 16.10.2020] 12.05.2023]; Available from:
<https://www.aerzteblatt.de/nachrichten/117483/Jeder-Vierte-hat-Angst-erste-Hilfe-zu-leisten>.

Böttiger, B.W., et al., *KIDS SAVE LIVES: ERC Position statement on schoolteachers' education and qualification in resuscitation*. Resuscitation, 2020. **151**: p. 87-90).

Böttiger, B.W., et al., *BIG FIVE strategies for survival following out-of-hospital cardiac arrest*. European Journal of Anaesthesiology, 2020. **Publish Ahead of Print**.

Böttiger, B.W., *Sicherheit und Erfolg für alle bei der Wiederbelebung – und dabei 10.000 Menschenleben zusätzlich retten*. Notfall + Rettungsmedizin, 2020. **23**(4): p. 241-242.

Abelairas-Gómez, C., et al., *Knowledge and attitudes on first aid and basic life support of pre- and elementary school teachers and parents*. Anales de Pediatría (English Edition), 2020. **92**(5): p. 268-276.

Gräsner, J., Wnent, J., Herlitz, J., Perkins, G.D., Lefering, R., Tjelmeland, I., Koster, R.W., Masterson, S., Rossell[1]Ortiz, F., Maurer, H., Böttiger, B.W., Moertl, M., Mols, P., Alihodžić, H., Hadžibegović, I., Ioannides, M., Truhlar, A., Wissenberg, M., Salo, A., Bossaert, L., *Survival after out-of-hospital cardiac arrest in Europe - results of the EURECA TWO study*. Resuscitation 2020. (02.02.2020); **148**: p. 218–226.; Available from:
<https://linkinghub.elsevier.com/retrieve/pii/S0300957220300460>

Fischer, M., Wnent, J., Gräsner, J.T., Seewald, S., Brenner, S., Jantzen, T., Bein, B., Bohn, A., *Jahresbericht des Deutschen Reanimationsregisters – Außerklinische Reanimation 2019*. Anästh Intensivmed, 2020. **61**: V89-V93.; Available from:
<https://www.reanimationsregister.de/downloads/publikationen/publikationen-2020/147-jahresbericht-des-deutschen-reanimationsregisters-ausserklinische-reanimation-2019/file.html>

Wnent, J., Gräsner, J.T., Seewald, S., Brenner, S., Jantzen, T., Fischer, M., Jakisch, B., Bein, B., Bohn, A., *Jahresbericht außerklinische Reanimation 2018 des Deutschen Reanimationsregisters*. Anästh Intensivmed, 2019 (01.06.2029). **60**: p. 1-3.; Available from:
<https://www.reanimationsregister.de/downloads/publikationen/publikationen-2019/169-jahresbericht-des-deutschen-reanimationsregisters-ausserklinische-reanimation-2018/file.html>

Sick, R. Projektdokumentation „ Bundesarbeitsgemeinschaft Erste Hilfe. Herzensretter Brandenburg“. 2019 04.11.2024]; Available from:
<https://www.bageh.de/herzensretter/projekt-brandenburg/>

Jakisch, B., Wnent, J., Brenner, S., Jantzen, T., Bohn, A., Fischer, M., Gräsner, J.T., Seewald, S., “It takes a system to save a life” - An analysis of selected EMS areas with emphasis to the implementation of the Eisenberg’s steps and the out-of-hospital cardiac arrest outcome. Resuscitation. 2019 (27.06.2019); **142**: e107; Available from:
[https://www.resuscitationjournal.com/article/S0300-9572\(19\)30472-1/abstract](https://www.resuscitationjournal.com/article/S0300-9572(19)30472-1/abstract)

Gässler, H., Fischer, M., Wnent, J., Seewald, S., Helm, M., Outcome after pre-hospital cardiac arrest in accordance with underlying cause. Resuscitation. 2019 (28.02.2019). **138**: p. 36-41; Available from:
<https://linkinghub.elsevier.com/retrieve/pii/S0300957218309559>

Perman, S.M., et al., Public Perceptions on Why Women Receive Less Bystander Cardiopulmonary Resuscitation Than Men in Out-of-Hospital Cardiac Arrest. Circulation, 2019. **139**(8): p. 1060-1068.

Otero-Agra, M., et al., What biomechanical factors are more important in compression depth for children lifesavers? A randomized crossover study. Am J Emerg Med, 2019. **37**(1): p. 100-108.

Oh, J.H., Does the use of steps decrease the quality of cardiopulmonary resuscitation when children as rescuers perform chest compression? Am J Emerg Med, 2019. **37**(1): p. 155-156.

Nakagawa, N.K., et al., KIDS SAVE LIVES BRAZIL: A successful pilot program to implement CPR at primary and high schools in Brazil resulting in a state law for a training CPR week. Resuscitation, 2019. **140**: p. 81-83).

Jorge-Soto, C., et al., Schoolteachers as candidates to be basic life support trainers: A simulation trial. Cardiol J, 2019. **26**(5): p. 536-542.

Hawkes, C.A., et al., Attitudes to Cardiopulmonary Resuscitation and Defibrillator Use: A Survey of UK Adults in 2017. Journal of the American Heart Association, 2019. **8**(7): p. e008267.

Groß, R., B.W. Böttiger, and H.M. Thaiss, Laienreanimation in Deutschland: Das Nationale Aktionsbündnis Wiederbelebung (NAWIB). Notfall + Rettungsmedizin, 2019.

Dirks, B., et al., Modularer Lehrerausbildungskurs des Deutschen Rates für Wiederbelebung (GRC) für den Wiederbelebungsunterricht in Schulen. Notfall + Rettungsmedizin, 2019.

Aranda-García, S., E. Herrera-Pedroviejo, and C. Abelairas-Gómez, Basic Life-Support Learning in Undergraduate Students of Sports Sciences: Efficacy of 150 Minutes of Training and Retention after Eight Months. Int J Environ Res Public Health, 2019. **16**(23).

Wingen, S., et al., *Self-confidence and level of knowledge after cardiopulmonary resuscitation training in 14 to 18-year-old schoolchildren: A randomised-interventional controlled study in secondary schools in Germany*. European Journal of Anaesthesiology | EJA, 2018. **35**(7): p. 519-526.

Pollack, R.A., et al., *Impact of Bystander Automated External Defibrillator Use on Survival and Functional Outcomes in Shockable Observed Public Cardiac Arrests*. Circulation, 2018. **137**: p. 00-00.

Myat, A., K.-J. Song, and T. Rea, *Out-of-hospital cardiac arrest: current concepts*. The Lancet, 2018. **391**(10124): p. 970-979.

M, P.S., et al., *Public Perceptions on Why Women Receive Less Bystander CPR Than Men in Out of Hospital Cardiac Arrest*. Circulation, 2018. **138**(Suppl_2): p. A198-A198.

Li, H., et al., *Bystander cardiopulmonary resuscitation training in primary and secondary school children in China and the impact of neighborhood socioeconomic status: A prospective controlled trial*. Medicine, 2018. **97**(40): p. e12673.

Lee, S.Y., et al., *Recognition of out-of-hospital cardiac arrest during emergency calls and public awareness of cardiopulmonary resuscitation in communities: A multilevel analysis*. Resuscitation, 2018. **128**: p. 106-111.

Krammel, M., et al., *Gender and age-specific aspects of awareness and knowledge in basic life support*. PLoS One, 2018. **13**(6): p. e0198918.

Felzen, M., et al., *Konzept und Evaluation eines 45-minütigen BLS-Trainings an Schulen*. Notfall + Rettungsmedizin, 2018. **21**(5): p. 367–373.

Dobbie, F., et al., *Attitudes towards bystander cardiopulmonary resuscitation: Results from a cross-sectional general population survey*. PLOS ONE, 2018. **13**(3): p. e0193391.

Del Rios, M., et al., *Pay It Forward: High School Video-based Instruction Can Disseminate CPR Knowledge in Priority Neighborhoods*. Western Journal of Emergency Medicine: Integrating Emergency Care with Population Health, 2018. **19**(2).

Bürger, A., Wnent, J., Bohn, A., Jantzen, T., Brenner, S., Lefering, R., Seewald, S., Fischer, M., Grasner, J.T., *The Effect of Ambulance Response Time on Survival Following Out-of-Hospital Cardiac Arrest*. Dtsch Arztebl Int 2018 (22.05.2018); **115**: 541–8; Available from: <https://www.reanimationsregister.de/downloads/publikationen/publikationen-2018/77-the-effect-of-ambulance-response-time-on-survival-following-out-of-hospital-cardiac-arrest/file.html>

Couper, K., et al., *The impact of resuscitation guideline terminology on CPR quality: A randomised controlled manikin study (the DIRECT study)*. Resuscitation, 2018. **130**: p. e9-e10.

Case, R., et al., *Identifying barriers to the provision of bystander cardiopulmonary resuscitation (CPR) in high-risk regions: A qualitative review of emergency calls*. Resuscitation, 2018. **129**: p. 43–47.

Böttiger, B.W., et al., *"All citizens of the world can save a life" - The World Restart a Heart (WRAH) initiative starts in 2018*. Resuscitation, 2018. **128**: p. 188-190.

Maurer, H., Masterson, S., Tjelmeland, I., Gräsner, J.T., Lefering, R., Böttiger, B.W., Bossaert, L., Herlitz, J., Koster, R.W., Rosell-Ortiz, F., Perkins, G.D., Wnent, J., *When is a bystander not a bystander anymore? A European survey*. Resuscitation. 2019 (16.12.2018); **136**: p. 78-84; Available from: [https://www.resuscitationjournal.com/article/S0300-9572\(18\)30979-1/abstract](https://www.resuscitationjournal.com/article/S0300-9572(18)30979-1/abstract)

Böttiger, B.W. and A. Lockey, *World Restart a Heart initiative: all citizens of the world can save a life*. The Lancet, 2018. **392**(10155).

Blewer, A.L., et al., *Gender Disparities Among Adult Recipients of Bystander Cardiopulmonary Resuscitation in the Public*. Circulation: Cardiovascular Quality and Outcomes, 2018. **11**(8): p. e004710.

Bleicher, D., *Implementierung von Wiederbelebungsmaßnahmen in den Schulunterricht – Eine Fragebogenauswertung zur Bestimmung der geeigneten Zielaltersgruppe*, in *Klinik und Poliklinik für Anästhesiologie und Intensivtherapie der Universitätsmedizin Rostock*. 2018, Universitätsmedizin Rostock. p. 57.

Fischer M, Seewald S, Gräsner JT, Jakisch B, Bohn A, Jantzen T, Brenner S, Bein B, Wnent J., *Außerklinische Reanimationen im Deutschen Reanimationsregister – eine Übersicht der Jahre 2014 bis 2017*. Anästh Intensivmed, (01.09.2018) (59): S. 679–682; Available from: <https://www.reanimationsregister.de/downloads/publikationen/publikationen-2018/213-ausserklinische-reanimationen-im-deutschen-reanimationsregister-eine-uebersicht-der-jahre-2014-bis-2017/file.html>

Wnent, J., Gräsner, J.T., Seewald, S., Brenner, S., Jantzen, T., Fischer, M., Jakisch, B., Bohn, A., *Jahresbericht Außerklinische Reanimation 2017 des Deutschen Reanimationsregisters*. Anästh Intensivmed 2018 (01.09.2018); **59**, S. 1–3; Available from: <https://www.reanimationsregister.de/downloads/publikationen/publikationen-2018/223-jahresbericht-ausserklinische-reanimation-2017-des-deutschen-reanimationsregisters/file.html>

Fischer, M., Lang, S., Wnent, J., Seewald, S., Brenner, S., Jantzen, T., Bohn, A., Gräsner, J.T., *Das reanimationsfreie Intervall bestimmt das Kurz- und Langzeitüberleben – eine Analyse aus dem Deutschen Reanimationsregister*. Anästh Intensivmed 2017 (31.01.2017), **58**: S60; Available from: <https://oparu.uni-ulm.de/items/241d985f-55d5-4a21-b397-bc3803fa99d6>

Bürger, A., Wnent, J., Seewald, S., Brenner, S., Jantzen, T., Bohn, A., Gräsner, J.T., Fischer, M., *Der Impact der Hilfsfrist auf das Reanimationsergebnis*. Anästh Intensivmed 2017 (31.01.2017), **58**: S71; Available from: https://www.researchgate.net/publication/313314812_Der_Impact_der_Hilfsfrist_auf_das_Reanimationsergebnis

Van Aken, H., et al., *Resuscitation Training for Schoolchildren Worldwide: Kids Save Lives*. Anesthesia & Analgesia, 2017. **124**(4): p. 1354-1356.

Heumesser, C., Wnent, J., Seewald, S., Brenner, S., Jantzen, T., Bohn, A., Gräsner, J.T., Fischer M., *Sind jährlich 10.000 Leben nach plötzlichem Kreislaufstillstand in Deutschland zu retten?*. Anästh Intensivmed 2017 (31.01.2017), **58**: S64; Available from: https://www.researchgate.net/publication/313314795_Sind_jährlich_10000_Leben_nach_plotzlich_em_Kreislaufstillstand_in_Deutschland_zu_rettetn

Schroeder, D.C., et al., [*"Kids Save Lives"-resuscitation training for schoolchildren: Systematic review*]. Anaesthetist, 2017. **66**(8): p. 589-597.

Salciccioli, J.D., et al., *Basic life support education in secondary schools: a cross-sectional survey in London, UK*. BMJ Open, 2017. **7**(1): p. e011436.

Riddersholm, S., et al., *Association of bystander interventions and hospital length of stay and admission to intensive care unit in out-of-hospital cardiac arrest survivors*. Resuscitation, 2017. **119**: p. 99-106.

Naim, M.Y., et al., *Association of Bystander Cardiopulmonary Resuscitation With Overall and Neurologically Favorable Survival After Pediatric Out-of-Hospital Cardiac Arrest in the United States: A Report From the Cardiac Arrest Registry to Enhance Survival Surveillance Registry*. JAMA Pediatr, 2017. **171**(2): p. 133-141.

Mptos, N. and P. Iserbyt, *Children saving lives: Training towards CPR excellence levels in chest compression based on age and physical characteristics*. Resuscitation, 2017. **121**: p. 135–140.

Marung, H., et al., *Severe underuse of dispatch life support in traumatic cardiac arrest*. Resuscitation, 2017. **118**: p. e33-e34.

Kragholm, K., et al., *Bystander Efforts and 1-Year Outcomes in Out-of-Hospital Cardiac Arrest*. The New England Journal Of Medicine, 2017. **376**(18): p. 1737-1747.

Gries, A., et al., [*Future of emergency medicine in Germany 2.0*]. Der Anaesthetist, 2017. **66**(5): p. 307-317.

Brown, L.E., et al., *CPR Instruction in U.S. High Schools: What Is the State in the Nation?* Journal of the American College of Cardiology, 2017. **70**(21): p. 2688–2695.

Brinkrolf, P., et al., *Senior citizens as rescuers: Is reduced knowledge the reason for omitted lay-resuscitation-attempts? Results from a representative survey with 2004 interviews*. PLOS ONE, 2017. **12**(6): p. e0178938.

Bray, J., et al., *Barriers to bystander cardiopulmonary resuscitation (CPR) in a dispatcher CPR system: a qualitative review of emergency calls*. Resuscitation, 2017. **118**: p. e90.

Böttiger, B.W. and B. Gliwitzky, *Besuch eines Schulprojektes zur Wiederbelebung in Grevenbroich*. Notfall+ Rettungsmedizin, 2017. **4**: p. 376.

Bohn, A., et al., *Lay-rescuer-CPR and telephone-assisted-CPR shorten the resuscitation-free interval and thus improve long-time survival. An analysis of the German resuscitation registry*. Resuscitation, 2017. **118**: p. e22.

Asklepios, *Erste Hilfe und Erstversorgung, Befragung 2017*. 2017: Studie der Asklepios Kliniken.

De Waha, S., Desch, S., Eitel, I., Gräsner, J.T., Jakisch, B., Thiele, H., *Prognostische Bedeutung der Laienreanimation bei extrahospitalem Herz-Kreislauf-Stillstand*. Med Klin Intensivmed Notfmed 112 (26.07.2017), 737–740 (2017); Available from:

<https://link.springer.com/article/10.1007/s00063-017-0327-4>

Altin, S., et al., *Wissen und Prädiktoren für die Bereitschaft und die Qualität der Durchführung einer Laienreanimation (kardiopulmonalen Reanimation (CPR)) durch Jugendliche von 14 bis 18 Jahren*. 2017, German Medical Science GMS Publishing House. p. DocP136.

Gräsner, J.T., Wnent, J., Seewald, S., Brenner, S., Jantzen, T., Fischer, M., Jakisch, B., Bohn, A., *Jahresbericht Außerklinische Reanimation 2016 des Deutschen Reanimationsregisters*. Anästh Intensivmed 2017 (31.01.2017), **58**: 1-2; Available from:

<https://www.reanimationsregister.de/downloads/publikationen/publikationen-2017/240-jahresbericht-ausserklinische-reanimation-2016-des-deutschen-reanimationsregisters-1/file.html>

Zylka-Menhorn, V., *Laienreanimation: Prüfen, Rufen, Drücken*. Deutsches Ärzteblatt, 2016. **41**(2/2016): p. 36.

Fischer M, Lang S, Wnent J, Seewald S, Brenner S, Jantzen T, Bohn A, Gräsner JT., *Laien- und Telefon-CPR verkürzen das reanimationsfreie Intervall und steigern das Langzeitüberleben – Eine Analyse aus dem Deutschen Reanimationsregister*. Anästh Intensivmed 2017 (31.01.2017), **58**: S63; Available from:

https://www.researchgate.net/publication/313314870_Laien-_und_Telefon-CPR_verkurzen_das_reanimationsfreie_Intervall_und_steigern_das_Langzeituberleben_-_Eine_Analyse_aus_dem_Deutschen_Reanimationsregister

Reveruzzi, B., L. Buckley, and M. Sheehan, *School-Based First Aid Training Programs: A Systematic Review*. Journal of School Health, 2016. **86**(4): p. 266-272.

Q, K.L., et al., *Elderly Laypersons Are Reluctant to Initiate Cardiopulmonary Resuscitation*. Circulation, 2016. **134**(suppl_1): p. A15062-A15062.

Müller, A.S., et al., *Praktische Fertigkeiten von Schulkindern nach videogestütztem Reanimationstraining*. Notfall + Rettungsmedizin, 2016. **19**(7): p. 582–590.

Mozaffarian, D., et al., *Heart Disease and Stroke Statistics-2016 Update: A Report From the American Heart Association*. Circulation, 2016. **133**(4): p. e38-360.

Lukas, R.-P., et al., *Kids save lives: a six-year longitudinal study of schoolchildren learning cardiopulmonary resuscitation: Who should do the teaching and will the effects last?* Resuscitation, 2016. **101**: p. 35-40.

Kitamura, T., et al., *Compression-only CPR training in elementary schools and student attitude toward CPR*. Pediatrics International, 2016. **58**(8): p. 698-704.

Hori, S., et al., *Cardiopulmonary Resuscitation Training in Schools: A Comparison of Trainee Satisfaction among Different Age Groups*. The Keio Journal of Medicine, 2016. **65**(3): p. 49-56.

Gretenkort, P., et al., *Strukturänderungen in der präklinischen Notfallmedizin-Standortbestimmung 2016*. Der Notarzt, 2016. **32**(06): p. 264-270.

Gräsner, J.T., et al., *EuReCa ONE-27 Nations, ONE Europe, ONE Registry: A prospective one month analysis of out-of-hospital cardiac arrest outcomes in 27 countries in Europe*. Resuscitation, 2016. **105**: p. 188-95; Available from: <https://www.reanimationsregister.de/downloads/publikationen/publikationen-2016/75-eureca-one-27-nations-one-europe-one-registry-a-prospective-one-month-analysis-of-out-of-hospital-cardiac-arrest-outcomes-in-27-countries-in-europe/file.html>

Böttiger, B.W. and B. Gliwitzky, *Mitteilungen des GRC*. Notfall + Rettungsmedizin, 2016. **19**(7): p. 617-619.

Böttiger, B.W., et al., *Kids Save Lives—ERC Positionspapier zur Schülerausbildung in Wiederbelebung "Helfende Hände—Training von Kindern ist Training fürs Leben"*. Notfall & Rettungsmedizin, 2016. **19**(6): p. 488-490.

Böttiger, B.W., et al., *Influence of EMS-physician presence on survival after out-of-hospital cardiopulmonary resuscitation: systematic review and meta-analysis*. Crit Care, 2016. **20**: p. 4.

Ein Leben Retten! 100 Pro Reanimation: Eine Erfolgsgeschichte. Anästhesiol Intensivmed Notfallmed Schmerzther, 2016. **51**(09): p. 509-510.