(EMS) have reported significant improvements in their systems and patient outcomes. The European Resuscitation Council Guidelines 2021 recommend the implementation.

Method The RAD was launched in January 2020. It involves six EMS regions (Berlin, Dortmund, Kiel, Plön, Vorpommern-Greifswald, Rostock) and runs for 30 months following a structured process with continuous monitoring and ongoing sequential meetings. A key focus is on implementation of local projects. The goal is the systemic and continuous improvement measured by the German Resuscitation Registry (GRR) and the ‘RAD-Online-Tool’. The ‘RAD-Online-Tool’ is a system-self-assessment tool (SSAT) used at different points over the study period.

Results The six EMS regions have conducted the SSAT to identify potentials for improvement and translate them into multiple projects and goals. All participants are aiming for better data quality or improved usage of the GRR and to introduce a High-Performance-CPR-Program. Some EMS dispatch centers started to measure and improve their Telephone-CPR and/or Rapid Dispatch. Several systems will implement lay rescuer integration via app or improve AED integration. Other projects are on multiprofessional training for paramedics and emergency physicians or a Paramedic-Supervisor-Pilot program.

Conclusion Initial data and reports from participating EMS regions show success and potential for further improvement. For Germany, the format of consecutive workshops and continuous support seems particularly appropriate.

REFERENCES

Conflict of interest SSé, JTG is member of the steering committee of the German Resuscitation Registry. The authors declare that they have no competing interests.

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Pain and trauma

NURSE PRACTITIONERS EMS (NP-EMS) PERFORMED ULTRASOUND (US)-GUIDED FASCIA ILIACA COMPARTMENT BLOCK (FIC-BLOCK) IN PATIENTS WITH A SUSPECTED PROXIMAL FEMUR FRACTURE.

PRELIMINARY DATA

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Background Prehospital pain treatment options for patients with a suspected proximal femur fracture consist mainly in the administration of IV-analgesics by EMS paramedics. The us-guided fascia iliaca compartment block is another suitable option applied by NP-EMS in prehospital emergency care. Therefore we examined whether NP-EMS are able to successfully perform an US-guided FIC block in order to provide analgesia.

Method NP-EMS were educated in the execution of an us-guided FIC block. Hereafter the NP-EMS were dispatched to patients suspect for a proximal femur fracture. After confirmation of the diagnosis, the block was performed under sterile conditions using a SonoSite iViz us-machine equipped with a 13–6 MHz linear transducer (Secma) and a 80 mm block-needle (Stimuplex ultra 360, 22G). Under direct visual guidance the needle was inserted and 0,3 ml/kg lidocaine (10mg/ml) with adrenaline 5 ug/ml was injected. The quality of visualization of the needle in relation to the nerve, pain relief using Numeric Rating Scale (NRS) and occurrence of complications were evaluated.

RESULTS
In 99 patients an us-guided FIC-block was performed. One NRS score was lost, so 98 data pairs (before and after FIC Block) were available for analysis. Data were not normally distributed (D’Agostino & Pearson omnibus normality test P < 0.001). The block was effective in 96 patients, median NRS-pain score before FIC block was 8 interquartile range [7-9]. NRS decreased to median 3 interquartile range [1-6] after the FIC block, P < 0.0001 using Wilcoxon matched-pairs signed rank test Figure 1. No complications were noted. In two patients a correct visualization of the needle or spread of local anesthetic was not obtained.

Conclusion Well-trained NP-EMS can successfully and effectively perform an us-guided FIC block for providing adequate pain relief in patients with a suspected proximal femur fracture in the pre hospital setting.

Conflict of interest None declared.

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DEVELOPING A YOUNG PERSONS ADVISORY GROUP (YPAG) TO INFORM THE DESIGN OF A STUDY TO IMPROVE PRE-HOSPITAL PAIN MANAGEMENT FOR CHILDREN AND YOUNG PEOPLE (CYP)

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Background Patient and public involvement is an integral component of clinical research. A YPAG is group of young people with active involvement in the design and conduct of clinical research aimed at CYP. Active collaboration with a YPAG can be mutually beneficial and can have a positive impact on study design and conduct. We report on the involvement of young people, their influence on study design and the perceived benefits to members.

Method A UK secondary school was approached and ten 16–17 year old students agreed to form a YPAG. Three 1-hour sessions were planned involving arts-based activities to explore key challenges, predetermined iteratively by the