

Press release

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Basic information

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Department of: Clinical Medicine

Main supervisor: Professor Hans Kirkegaard

Title of dissertation: Early identification of paediatric patients at risk of clinical deterioration – a multicentre study of Paediatric Early Warning Systems

Date for defence: 17.5.2018 at (time of day): 14.00 Place: Aarhus Universiteteshospital, Auditorium J116-113

Press release (Danish)

Ny viden om opsporing af kritisk sygdom hos hospitalsindlagte børn

Over 100.000 børn indlægges hvert år i Danmark. Internationale studier viser, at hos hospitalsindlagte børn kan mange tilfælde af kritisk forværring af deres tilstand og dødsfald potentielt forudsiges og forhindres. Trods dette viser flere danske og internationale undersøgelser, at det fortsat er et problem at erkende alvorlighedsgraden af sygdom og få målt og fortolket ændringer i vitalparametre korrekt. Børns tegn på alvorlig sygdom kan være meget svære at få øje på, og små ændringer i et sygt barns tilstand kan dække over en kritisk forværring. Paediatric Early Warning Score (PEWS) er en simpel og struktureret observationsmetode med understøttende handlingsalgoritmer, som hjælper med at spotte ændringer i børns tilstand tidligt i sygdomsforløbet. Hvor det tidligere alene var op til den enkelte at vurdere barnets tilstand og handle derefter, giver PEWS-systemet retningslinjer for observations- og handlingsniveau. Sammenkoblingen af systematiske observationer og handlingsanvisninger ser således ud til at kunne optimere hospitalsindlagte børns sikkerhed.

Claus Sixtus Jensen har under sit ph.d.-forløb undersøgt PEWS i klinisk praksis og har således bidraget til vigtig viden omkring kritisk forværring hos hospitalsindlagte børn, sygeplejerskers observationspraksis og sammenlignet 2 PEWS-modeller samt personalets oplevelser af at arbejde med scoringsredskabet. Disse resultater har givet yderst relevant ny viden om PEWS til brug ved fremtidig implementering og giver grundlaget for at der i Danmark fremover kan anvendes en fælles PEWS-model. Resultaterne er fremkommet via et nyt ph.d.-projekt fra Aarhus Universitet, Health. Projektet er gennemført af Claus Sixtus Jensen, der forsvarede det d. 17. maj 2018.

Forsvaret af ph.d.-projektet er offentligt og finder sted den 17. maj 2018 kl. 14 i Auditorium J116-113, Aarhus Universitetshospital. Titlen på projektet er "Early identification of paediatric patients at risk of clinical deterioration – a multicentre study of Paediatric Early Warning Systems". Yderligere oplysninger: Ph.d.-studerende Claus Sixtus Jensen, e-mail: claus.sixtus.jensen@clin.au.dk tlf. 27304696.

Bedømmelsesudvalg:

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Press release (English)

Headline

Every year over 100,000 children in Denmark are hospitalised. International studies show that in hospitalised children, many cases of critical deterioration and death can potentially be predicted and prevented. Despite this, several studies show that lack of recognition of the severity of the disease and failure to measure as well as interpret changes in vital parameter correctly remains a problem.

Children's signs of serious illness can be very difficult to spot and small changes in the condition of a sick child can cover a critical deterioration. The Paediatric Early Warning Score (PEWS) is a simple and structured observation method with supporting action algorithms that help detect changes in children's condition early in the course of illness. Before PEWS was it alone up to the individual to assess the condition of the child. Now the PEWS system supports the staff. The linkage of systematic observations and action instructions thus appears to optimize hospitalised children's safety.

During his PhD course, Claus Sixtus Jensen has studied PEWS in clinical practice and has contributed to important knowledge about critical deterioration among hospitalized children, nurses observation practices and compared 2 PEWS models as well as the staff's experiences of working with the scoring tool. These results have provided important new knowledge about PEWS that can be used for future implementation as well as contributing to the work for a common PEWS model in Denmark. The results are obtained through a new PhD project from Aarhus University, Health. The project has been completed by Claus Sixtus Jensen, defending it d. 17.05.2018.

The defence is public and takes place on 17.05.2018 at auditorium J116-113, Aarhus University Hospital. The title of the project is Early identification of paediatric patients at risk of clinical deterioration – a multicentre study of Paediatric Early Warning Systems. For more information, please contact PhD student Claus Sixtus Jensen, email: claus.sixtus.jensen@clin.au.dk Phone +45 2730 4696.

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