

Reminder implementation for safety in child care

Submission date 10/06/2015	Recruitment status No longer recruiting	☐ Prospectively registered ☐ Protocol
Registration date 23/06/2015	Overall study status Completed	☐ Statistical analysis plan ☒ Results
Last Edited 17/12/2020	Condition category Circulatory System	☐ Individual participant data

Plain English summary of protocol

Plain English summary under review

Contact information

Type(s)

Scientific

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Study information

Scientific Title

Reminder implementation for safety in child care - a cluster randomized controlled trial in paediatric care

Acronym

Study objectives

The overall objective of this project is to evaluate the effects of implementing a clinical practice guideline for peripheral venous catheters in the format of reminders, integrated in the electronic patient record. Specifically we hypothesise:

1. That a cluster randomized intervention using electronic reminders in paediatric care will reduce complications related to peripheral venous catheters in hospitalised children
2. That the electronic reminders will improve registered nurses adherence to the clinical guidelines for peripheral venous catheters.

In addition, the study aims to describe the relationship between registered nurses perceptions of work context and the outcomes of the intervention.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Regional Ethics Review Board in Uppsala, Sweden, 06/04/2009 and 01/12/2010, refs: 2008/107 and 2008/360

Primary study design

Interventional

Study design

A single centre cluster randomized controlled study

Study type(s)

Other

Health condition(s) or problem(s) studied

The study focus is on complications related to peripheral venous catheters that are used for administration of medications and fluids in patients.

Interventions

1. Intervention arm: Reminders based on recommendations from clinical practice guidelines for peripheral venous catheters, integrated in the electronic patient record.
2. Control arm: Clinical practice guidelines available on the Intranet, following normal procedure for dissemination of guidelines.

Intervention Type

Other

Primary outcome(s)

Recorded occurrence of peripheral venous catheter-related complications at removal.

Key secondary outcome(s)

Registered nurses self-reported adherence to the clinical practice guideline recommendations for managing peripheral venous catheters.

Completion date

30/09/2011

Eligibility

Key inclusion criteria

12 paediatric hospital wards, including neonatal and paediatric patients, with the same electronic patient record system.

1. Hospitalised Children, age 0 - 18 years, with peripheral venous catheters:

1.1. Inserted and documented in a template for peripheral venous catheters at baseline and after the intervention.

1.2. Only one peripheral venous catheter per patient was included.

Registered nurses at the 12 paediatric wards:

1.3. Who had worked at one of the 12 wards at the time for data-collection.

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Child

Lower age limit

0 Years

Upper age limit

18 Years

Sex

All

Total final enrolment

1562

Key exclusion criteria

Peripheral venous catheters were excluded that:

1. Lacked complete recording of reasons for removal.

Registered nurses were excluded who during the data-collection periods:

1. Had only administrative duties

2. Were on parental leave

3. Sick leave,

4. Doing full time studies

Date of first enrolment

01/10/2009

Date of final enrolment

30/09/2011

Locations

Countries of recruitment

Sweden

Study participating centre

Astrid Lindgrens Children's Hospital, Karolinska University Hospital

Sweden

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Sponsor information

Organisation

School of Education, Health and Social Studies

ROR

<https://ror.org/000hdh770>

Funder(s)

Funder type

University/education

Funder Name

Health Care Sciences Postgraduate School, Karolinska Institutet

Funder Name

Högskolan Dalarna

Alternative Name(s)

Dalarna University, DU

Funding Body Type

Government organisation

Funding Body Subtype

Local government

Location

Sweden

Results and Publications

Individual participant data (IPD) sharing plan

IPD sharing plan summary

Not expected to be made available

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article	results	27/01/2016	17/12/2020	Yes	No