

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Impact of rapid response nursing team on patients' survival in emergency department and medical ward

Protocol summary

Summary

This study has been conducted to investigate impact of initiating rapid response nursing team on survival of patients in emergency department and medical ward. 714 patients who had admitted to these wards in hospital were randomly allocated to two groups (study: 357, control: 357). Rapid response nursing team consisted of an intensive care nurse and an anesthesia technician attended 24 hours during the week. All necessary interventions for control group were done by the wards' staffs according to the orders or protocols. The rapid response nursing team had been called by staffs of medical ward or emergency department whenever patients' condition deteriorated like decrease in LOC and SaO₂, dyspnea, bradycardia,.... The team used to be immediately attendant and helped the staffs to evaluate patients and intervened accurately; if the staffs were not enough expert, the team itself performed all necessary interventions based on physician orders or hospital protocols such as O₂ therapy, positioning, ECG, blood drawing for laboratory tests,.... After each intervention the outcome including stabilization of patients condition, need to ICU, CCU admission or cardiopulmonary arrest and unexpected death was recorded.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013102015077N1**

Registration date: **2014-01-06, 1392/10/16**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2014-01-06, 1392/10/16

Registrant information

Name

Zahra Eskandari

Name of organization / entity

Qazvin University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 28 1223 7267

Email address

zeskandari@qums.ac.ir

Recruitment status

Recruitment complete

Funding source

Qazvin University of Medical Sciences

Expected recruitment start date

2013-07-18, 1392/04/27

Expected recruitment end date

2013-10-22, 1392/07/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Impact of rapid response nursing team on patients' survival in emergency department and medical ward

Public title

Initiating rapid response nursing team and its impact on patients' survival

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Age: ≤ 18 years Exclusion criteria: cardiopulmonary arrest while referring to emergency department; cardiopulmonary arrest in operating room.

Age

From **18 years** old to **92 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **714**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Not blinded

Blinding description

Placebo
Not used

Assignment
Parallel

Other design features
Stratified random sampling was conducted with 119 blocks.

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Qazvin University of Medical Sciences

Street address

Qazvin University of Medical Sciences, Shahid Bahonar Boulevard, Qazvin

City

Qazvin

Postal code

3419759811

Approval date

2013-07-16, 1392/04/25

Ethics committee reference number

28/20/7628

Health conditions studied

1

Description of health condition studied

No special disease has been considered

ICD-10 code

-

ICD-10 code description

-

Primary outcomes

1

Description

Cardiopulmonary arrest

Timepoint

Until discharge from hospital

Method of measurement

Based on the observation checklist rapid response nursing team

2

Description

Transfer to ICU

Timepoint

Until discharge from hospital

Method of measurement

Based on the observation checklist rapid response nursing team

3

Description

Transfer to CCU

Timepoint

Until discharge from hospital

Method of measurement

Based on the observation checklist rapid response nursing team

4

Description

Transfer to other wards

Timepoint

Until discharge from hospital

Method of measurement

Based on the observation checklist rapid response nursing team

5

Description

Unexpected death

Timepoint

Until discharge from hospital

Method of measurement

Based on the observation checklist rapid response nursing team

Secondary outcomes

1

Description

-

Timepoint

-

Method of measurement

-

Intervention groups

1

Description

Intervention: Rapid response nursing team consisted of an intensive care nurse specialist and an anesthesia technician who attended in emergency department 24 hours during the week. They rounded emergency department and medical ward at the beginning of each work shift and then every 2 hours as needed. They have been called to attend for patients who experienced deterioration in clinical condition like bradycardia , tachycardia, bradypnea, tachypnea, decrease in LOC, SaO2 and BP,The team used to be immediately attendant and helped the staffs to evaluate patients; If the staffs were not enough expert, the team itself performed all necessary interventions according to physician orders or hospital protocols such as O2 therapy, positioning, ECG, blood drawing for laboratory tests,... After each intervention the outcomes including stabilization of patient condition, need to transfer to ICU or CCU, transfer to other centers or cardiopulmonary arrest and unexpected death was recorded.

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Medical Center of Alborz University of Medical Sciences

Full name of responsible person

Zahra Eskandari

Street address

Emam Jafar Sadiq hospital, Ayatollah Khamenei Boulevard, Hashtgerd

City

Hashtgerd

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Chancellor for research, Qazvin University of Medical Sciences

Full name of responsible person

Dr. Zinat Jourabchi

Street address

Vice Chancellor for research, Qazvin University of Medical Sciences, Shahid Bahonar Boulevard, Qazvin

City

Qazvin

Grant name

Grant code / Reference number

28/6/8497

Is the source of funding the same sponsor

organization/entity?

Yes

Title of funding source

Vice Chancellor for research, Qazvin University of Medical Sciences

Proportion provided by this source

100

Public or private sector

empty

Domestic or foreign origin

empty

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

empty

Person responsible for general inquiries

Contact

Name of organization / entity

Qazvin University of Medical Sciences

Full name of responsible person

Zahra Eskandari

Position

Master candidate, critical care nursing

Other areas of specialty/work

Street address

Faculty of Nursing and Midwifery, Qazvin University of Medical Sciences, Shahid Bahonar Boulevard, Qazvin

City

Qazvin

Postal code

3419759811

Phone

+98 28 1333 8127

Fax

+98 28 1223 7268

Email

zeskandari44@yahoo.com

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Qazvin University of Medical Sciences

Full name of responsible person

Leili Yekefallah

Position

Ph.D. student

Other areas of specialty/work

Street address

Faculty of Nursing and Midwifery, Qazvin University of Medical Sciences, Shahid Bahonar Boulevard, Qazvin

City

Qazvin

Postal code

3419759811

Phone

+98 28 1333 8127

Fax
+98 28 1223 7268
Email
Leili_fallah@yahoo.com
Web page address

+98 28 1333 8127
Fax
+98 28 1223 7268
Email
zeskandari44@yahoo.com
Web page address

Person responsible for updating data

Contact

Name of organization / entity
Qazvin University of Medical Sciences
Full name of responsible person
Zahra Eskandari
Position
Master candidate, critical care nursing
Other areas of specialty/work
Street address
Faculty of Nursing and Midwifery, Qazvin University of
Medical Sciences, Shahid Bahonar Boulevard, Qazvin
City
Qazvin
Postal code
3419759811
Phone

Sharing plan

Deidentified Individual Participant Data Set (IPD)
empty
Study Protocol
empty
Statistical Analysis Plan
empty
Informed Consent Form
empty
Clinical Study Report
empty
Analytic Code
empty
Data Dictionary
empty