General

Title
Cardiac care: percentage of patients with cardiac arrest (CA) meeting the inclusion criterion who undergo therapeutic hypothermia.

Source(s)


Measure Domain

Primary Measure Domain
Clinical Quality Measures: Process

Secondary Measure Domain
Does not apply to this measure

Brief Abstract

Description
This measure is used to assess the percentage of patients with cardiac arrest (CA) meeting the inclusion criterion who undergo therapeutic hypothermia.

Rationale
The aim of intensive care medicine is to provide critical patients with the healthcare that they need, ensuring the quality and safety of care. Intensive care medicine is one of the principal components of modern healthcare systems. There is an increasing demand for this resource, which involves high costs.

The quality of care has gradually come to be the central focus of healthcare, and in recent years patient safety has come to represent one of the key aspects of quality. In the case of intensive care medicine, this interest in quality is even more evident, not only because of its social and economic impact, but also because some of the dimensions involved in the quality of care of critical patients take on greater importance: critical patients are more vulnerable, access to critical care is more limited so efforts to
distribute resources equitably are more important, scant scientific evidence is available, and the efficiency is limited.

Moderate hypothermia induced after cardiac arrest (CA) in patients who remain in coma after recovering circulation has proven to improve the neurological prognosis and reduce mortality. A lower level of evidence is recognized for its use after CA due to heart rhythms that do not respond to defibrillation.

Evidence for Rationale


Primary Health Components

Cardiac care; cardiac arrest (CA); therapeutic hypothermia

Denominator Description

Number of patients with cardiac arrest (CA) meeting the inclusion criterion (see the related "Denominator Inclusions/Exclusions" field)

Numerator Description

Number of patients with cardiac arrest (CA) meeting the inclusion criterion who undergo therapeutic hypothermia (see the related "Numerator Inclusions/Exclusions" field)

Evidence Supporting the Measure

Type of Evidence Supporting the Criterion of Quality for the Measure

A clinical practice guideline or other peer-reviewed synthesis of the clinical research evidence

A formal consensus procedure, involving experts in relevant clinical, methodological, public health and organizational sciences

A systematic review of the clinical research literature (e.g., Cochrane Review)
Additional Information Supporting Need for the Measure
Unspecified

Extent of Measure Testing
Unspecified

State of Use of the Measure

State of Use
Current routine use

Current Use
not defined yet

Application of the Measure in its Current Use

Measurement Setting
Hospital Inpatient
Intensive Care Units

Professionals Involved in Delivery of Health Services
not defined yet

Least Aggregated Level of Services Delivery Addressed
Single Health Care Delivery or Public Health Organizations

Statement of Acceptable Minimum Sample Size
Unspecified

Target Population Age
Age greater than or equal to 18 years

Target Population Gender
Either male or female
National Strategy for Quality Improvement in Health Care

National Quality Strategy Aim
Better Care

National Quality Strategy Priority
Prevention and Treatment of Leading Causes of Mortality

Institute of Medicine (IOM) National Health Care Quality Report Categories

IOM Care Need
Getting Better

IOM Domain
Effectiveness

Data Collection for the Measure

Case Finding Period
Unspecified

Denominator Sampling Frame
Patients associated with provider

Denominator (Index) Event or Characteristic
Clinical Condition
Institutionalization

Denominator Time Window
not defined yet

Denominator Inclusions/Exclusions
Inclusions
Number of patients with cardiac arrest (CA) meeting the inclusion criterion

Note:
Inclusion criterion: Persistent coma after circulation is recovered. Both rhythms that can be defibrillated and those that cannot are included.
Population: All patients with CA who meet the inclusion criterion discharged from the critical care department during the study period.

Exclusions
- Cardiogenic shock
- Malignant arrhythmias
- Pregnancy
- Coagulation disorders
- Orders to withhold life support

Exclusions/Exceptions
not defined yet

Numerator Inclusions/Exclusions
Inclusions
Number of patients with cardiac arrest (CA) meeting the inclusion criterion who undergo therapeutic hypothermia

Therapeutic hypothermia: Induction of moderate hypothermia (33 ± 1 °C) within 4 hours of CA.

Exclusions
Unspecified

Numerator Search Strategy
Institutionalization

Data Source
Electronic health/medical record
Paper medical record

Type of Health State
Does not apply to this measure

Instruments Used and/or Associated with the Measure
Unspecified

Computation of the Measure
Measure Specifies Disaggregation
Does not apply to this measure

Scoring
Rate/Proportion

Interpretation of Score
Desired value is a higher score

Allowance for Patient or Population Factors
not defined yet

Standard of Comparison
not defined yet

Prescriptive Standard
Standard: 90%

Evidence for Prescriptive Standard

Identifying Information

Original Title
Therapeutic hypothermia after cardiac arrest (CA).

Measure Collection Name
Quality Indicators in Critically Ill Patients

Measure Set Name
Cardiac Care and Cardiopulmonary Resuscitation (CPR)

Submitter
Spanish Society of Intensive and Critical Care and Units Coronary - Clinical Specialty Collaboration
Developer
Spanish Society of Intensive and Critical Care and Units Coronary - Clinical Specialty Collaboration

Funding Source(s)
Boehringer Laboratories

Composition of the Group that Developed the Measure
Work Group for Cardiac Care and Cardiopulmonary Resuscitation (CPR)

Mª Paz Fuset Cabanes
Miguel Ruano Marco
Josep Mª Alcoverro Pedrola
Jaime Latour Pérez
José Cuñat de la Hoz
Frutos del Nogal Sáez
Francisco Felices Abad
Juan López Messa
Emilia Civeira Murillo
María Dolores Carrasco González
Antonio José Montón Rodríguez

Scientific Coordination:

Maria Cruz Martín Delgado
Jesús Blanco Varela
Lluís Cabré Pericas
Pedro Galdos Anuncibay
Federico Gordo Vidal

Financial Disclosures/Other Potential Conflicts of Interest
Unspecified

Adaptation
This measure was not adapted from another source.

Date of Most Current Version in NQMC
2011 Mar

Measure Maintenance
Unspecified

Date of Next Anticipated Revision
2016 Jul
Measure Status
This is the current release of the measure.
The measure developer reaffirmed the currency of this measure in May 2016.

Measure Availability
Source available in English and Spanish from the Spanish Society of Intensive and Critical Care and Units Coronary (SEMICYUC) Web site.

For more information, contact SEMICYUC at Paseo de la Reina Cristina, 36, 4º D, Madrid, Spain; Phone: +34-91-502-12-13; Fax: +34-91-502-12-14; Web site: www.semicyuc.org; E-mail: secretaria@semicyuc.org.

NQMC Status
This NQMC summary was completed by ECRI Institute on November 18, 2013. The information was verified by the measure developer on February 6, 2014.
The information was reaffirmed by the measure developer on May 10, 2016.

Copyright Statement
This NQMC summary is based on the original measure, which is subject to the measure developer's copyright restrictions.

The Quality Indicators in Critically Ill Patients update 2011 can be used by any private or public body only for the purposes of research, clinical management, teaching and education, and will not be used for any other purpose. In all cases, full credit to the Spanish Society of Intensive Care Medicine (SEMICYUC) will be granted. The commercial use of the Quality Indicators in Critically Ill Patients update 2011 is explicitly forbidden.

Production
Source(s)

Disclaimer
NQMC Disclaimer
The National Quality Measures Clearinghouseâ„¢ (NQMC) does not develop, produce, approve, or endorse the measures represented on this site.

All measures summarized by NQMC and hosted on our site are produced under the auspices of medical specialty societies, relevant professional associations, public and private organizations, other government agencies, health care organizations or plans, individuals, and similar entities.
Measures represented on the NQMC Web site are submitted by measure developers, and are screened solely to determine that they meet the NQMC Inclusion Criteria.

NQMC, AHRQ, and its contractor ECRI Institute make no warranties concerning the content or its reliability and/or validity of the quality measures and related materials represented on this site. Moreover, the views and opinions of developers or authors of measures represented on this site do not necessarily state or reflect those of NQMC, AHRQ, or its contractor, ECRI Institute, and inclusion or hosting of measures in NQMC may not be used for advertising or commercial endorsement purposes.

Readers with questions regarding measure content are directed to contact the measure developer.