Complete Summary

TITLE

Hematology: percentage of patients aged 18 years and older with a diagnosis of myelodysplastic syndrome (MDS) who are receiving erythropoietin therapy with documentation of iron stores prior to initiating erythropoietin therapy.

SOURCE(S)

American Society of Hematology, Physician Consortium for Performance Improvement®. Hematology physician performance measurement set. Chicago (IL): American Medical Association (AMA); 2007 Jan. 22 p. [10 references]

Measure Domain

PRIMARY MEASURE DOMAIN

Process

The validity of measures depends on how they are built. By examining the key building blocks of a measure, you can assess its validity for your purpose. For more information, visit the Measure Validity page.

SECONDARY MEASURE DOMAIN

Does not apply to this measure

Brief Abstract

DESCRIPTION

This measure is used to assess the percentage of patients aged 18 years and older with a diagnosis of myelodysplastic syndrome (MDS) who are receiving erythropoietin therapy with documentation of iron stores prior to initiating erythropoietin therapy.

RATIONALE

To be effective erythropoietin requires that adequate iron stores be present due to iron's importance in red-blood cell synthesis. Iron deficiency presents a major limitation to the efficacy of erythropoietin therapy.*

*The following clinical recommendation statements are quoted verbatim from the referenced clinical guidelines and represent the evidence base for the measure:

Anemia related to myelodysplastic syndrome (MDS) generally presents as a hypoproductive macrocytic anemia, often associated with suboptimal elevation of serum Epo levels. Iron repletion needs to be verified before instituting Epo therapy. (National Comprehensive Cancer Network [NCCN])

PRIMARY CLINICAL COMPONENT

Myelodysplastic syndrome (MDS); erythropoietin therapy; iron stores (bone marrow examination, ferritin, serum iron, total iron binding capacity [TIBC])

DENOMINATOR DESCRIPTION

All patients aged 18 years and older with a diagnosis of myelodysplastic syndrome (MDS) who are receiving erythropoietin therapy (see the related "Denominator Inclusions/Exclusions" field in the Complete Summary)

NUMERATOR DESCRIPTION

Patients with documentation* of iron stores prior to initiating erythropoietin therapy

*Documentation includes either bone marrow examination including iron stain OR serum iron measurement by ferritin or serum iron and total iron binding capacity (TIBC).

Evidence Supporting the Measure

EVIDENCE SUPPORTING THE CRITERION OF QUALITY

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

Evidence Supporting Need for the Measure

NEED FOR THE MEASURE

Unspecified

State of Use of the Measure

STATE OF USE

Current routine use

CURRENT USE

Internal quality improvement
National reporting

Application of Measure in its Current Use

CARE SETTING

Ambulatory Care
Physician Group Practices/Clinics

PROFESSIONALS RESPONSIBLE FOR HEALTH CARE

Advanced Practice Nurses
Physician Assistants
Physicians

LOWEST LEVEL OF HEALTH CARE DELIVERY ADDRESSED

Individual Clinicians

TARGET POPULATION AGE

Age greater than or equal to 18 years

TARGET POPULATION GENDER

Either male or female

STRATIFICATION BY VULNERABLE POPULATIONS

Unspecified

Characteristics of the Primary Clinical Component

INCIDENCE/PREVALENCE

Unspecified

ASSOCIATION WITH VULNERABLE POPULATIONS

Unspecified

BURDEN OF ILLNESS

Unspecified

UTILIZATION

Unspecified

COSTS

Unspecified

Institute of Medicine National Healthcare Quality Report Categories

IOM CARE NEED

Living with Illness

IOM DOMAIN

Effectiveness

Data Collection for the Measure

CASE FINDING

Users of care only

DESCRIPTION OF CASE FINDING

All patients aged 18 years and older with a diagnosis of myelodysplastic syndrome (MDS) who are receiving erythropoietin therapy

DENOMINATOR SAMPLING FRAME

Patients associated with provider

DENOMINATOR INCLUSIONS/EXCLUSIONS

Inclusions
All patients aged 18 years and older with a diagnosis of myelodysplastic syndrome (MDS) who are receiving erythropoietin therapy*

**Erythropoietin therapy includes the following medications: epoetin and darbepoetin.

Exclusions
Documentation of system reason(s) for not documenting iron stores prior to initiating erythropoietin therapy

RELATIONSHIP OF DENOMINATOR TO NUMERATOR

All cases in the denominator are equally eligible to appear in the numerator

DENOMINATOR (INDEX) EVENT

Clinical Condition
Therapeutic Intervention

DENOMINATOR TIME WINDOW

Time window is a single point in time

NUMERATOR INCLUSIONS/EXCLUSIONS

Inclusions
Patients with documentation* of iron stores prior to initiating erythropoietin therapy

*Documentation includes either bone marrow examination including iron stain OR serum iron measurement by ferritin or serum iron and total iron binding capacity (TIBC).

Exclusions
None

MEASURE RESULTS UNDER CONTROL OF HEALTH CARE PROFESSIONALS, ORGANIZATIONS AND/OR POLICYMAKERS

The measure results are somewhat or substantially under the control of the health care professionals, organizations and/or policymakers to whom the measure applies.

NUMERATOR TIME WINDOW

Episode of care

DATA SOURCE

Administrative data
Medical record

LEVEL OF DETERMINATION OF QUALITY

Individual Case

PRE-EXISTING INSTRUMENT USED

Unspecified

Computation of the Measure

SCORING

Rate

INTERPRETATION OF SCORE

Better quality is associated with a higher score

ALLOWANCE FOR PATIENT FACTORS

Unspecified

STANDARD OF COMPARISON

Internal time comparison

Evaluation of Measure Properties

EXTENT OF MEASURE TESTING

Unspecified

Identifying Information

ORIGINAL TITLE

Measure #2: MDS - documentation of iron stores in patients receiving erythropoietin therapy.

MEASURE COLLECTION

The Physician Consortium for Performance Improvement® Measurement Sets

MEASURE SET NAME

Hematology Physician Performance Measurement Set

SUBMITTER

American Medical Association on behalf of the American Society of Hematology and the Physician Consortium for Performance Improvement®

DEVELOPER

American Society of Hematology
Physician Consortium for Performance Improvement®

FUNDING SOURCE(S)

Unspecified

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FINANCIAL DISCLOSURES/OTHER POTENTIAL CONFLICTS OF INTEREST

Conflicts, if any, are disclosed in accordance with the Physician Consortium for Performance Improvement® conflict of interest policy.

ENDORSER

National Quality Forum

INCLUDED IN

Ambulatory Care Quality Alliance
Physician Quality Reporting Initiative

ADAPTATION

Measure was not adapted from another source.

RELEASE DATE

2007 Jan

MEASURE STATUS

This is the current release of the measure.

SOURCE(S)

American Society of Hematology, Physician Consortium for Performance Improvement®. Hematology physician performance measurement set. Chicago (IL): American Medical Association (AMA); 2007 Jan. 22 p. [10 references]

MEASURE AVAILABILITY

The individual measure, "Measure #2: MDS - Documentation of Iron Stores in Patients Receiving Erythropoietin Therapy," is published in the "Hematology Physician Performance Measurement Set." This document and technical specifications are available in Portable Document Format (PDF) from the American Medical Association (AMA)-convened Physician Consortium for Performance Improvement® Web site: www.physicianconsortium.org.

For further information, please contact AMA staff by e-mail at cqi@ama-assn.org.

NQMC STATUS

This NQMC summary was completed by ECRI Institute on September 13, 2007. The information was verified by the measure developer on October 26, 2007.

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