



Complete Summary

TITLE

Venous thromboembolism (VTE): percentage of low-molecular-weight heparin (LMWH)-eligible patients with deep vein thrombosis (DVT) treated in an outpatient setting.

SOURCE(S)

Institute for Clinical Systems Improvement (ICSI). Venous thromboembolism. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2004 Feb. 92 p. [254 references]

Brief Abstract

DESCRIPTION

This measure assesses the percentage of low-molecular-weight heparin (LMWH)-eligible patients with deep vein thrombosis (DVT) treated in an outpatient setting.

RATIONALE

The priority aim addressed by this measure is to reduce resources and costs used in the diagnosis and treatment of venous thromboembolism (VTE).

PRIMARY CLINICAL COMPONENT

Venous thromboembolism; deep vein thrombosis; low-molecular-weight heparin

DENOMINATOR DESCRIPTION

Number of low-molecular-weight heparin (LMWH)-eligible patients with deep vein thrombosis (DVT) treated with LMWH (see the related "Denominator Inclusions/Exclusions" field in the Complete Summary)

NUMERATOR DESCRIPTION

Number of low-molecular-weight heparin (LMWH)-eligible patients with deep vein thrombosis (DVT) from the denominator treated as outpatients (see the related "Numerator Inclusions/Exclusions" field in the Complete Summary)

Evidence Supporting the Measure

PRIMARY MEASURE DOMAIN

Process

SECONDARY MEASURE DOMAIN

Not applicable

EVIDENCE SUPPORTING THE MEASURE

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

NATIONAL GUIDELINE CLEARINGHOUSE LINK

- [Venous thromboembolism.](#)

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

Application of Measure in its Current Use

CARE SETTING

Physician Group Practices/Clinics

PROFESSIONALS RESPONSIBLE FOR HEALTH CARE

Physicians

LOWEST LEVEL OF HEALTH CARE DELIVERY ADDRESSED

Group Clinical Practices

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

Getting Better
Living with Illness

IOM DOMAIN

Effectiveness

Data Collection for the Measure

CASE FINDING

Users of care only

DESCRIPTION OF CASE FINDING

Patients diagnosed with deep vein thrombosis (DVT) who meet the criteria for low-molecular-weight heparin (LMWH)

Identify patients diagnosed with DVT using the specified diagnosis codes (see the related "Denominator Inclusions/Exclusions" field). Some medical groups will be able to identify the population of patients through patient computer records of International Classification of Diseases, Ninth Revision (ICD-9) codes. If this is not possible, a list of patients may be generated from the radiology records for compression ultrasounds with a diagnosis of DVT.

The medical record of each patient is reviewed to determine if the patient meets any of the exclusion criteria (see the "Denominator Inclusions/Exclusions" field). If none of the exclusions are met, the chart is further reviewed for administration of LMWH.

Finally, the chart is reviewed for an inpatient admission within 7 days of the diagnosis of DVT.

The suggested time frame for data collection is a calendar month.

DENOMINATOR SAMPLING FRAME

Patients associated with provider

DENOMINATOR (INDEX) EVENT

Clinical Condition
Therapeutic Intervention

DENOMINATOR INCLUSIONS/EXCLUSIONS

Inclusions

Number of low-molecular-weight heparin (LMWH)-eligible patients with deep vein thrombosis (DVT)* treated with LMWH**

*Patients diagnosed with lower extremity DVT as identified by the following International Classification of Diseases, Ninth Revision (ICD-9) codes: 451.11, 451.19, 451.2, 453.8.

**Patients treated with LMWH: listed with GCN code 7542.

Exclusions

- Any DVT other than lower extremity
- Suspected or confirmed pulmonary embolus
- Contraindications to anticoagulation
- Familial bleeding or clotting disorders
- History of heparin-induced thrombocytopenia
- Pregnancy
- Phlegmasia/extensive iliofemoral disease
- Renal dysfunction requiring dialysis

NUMERATOR INCLUSIONS/EXCLUSIONS

Inclusions

Number of low-molecular-weight heparin (LMWH)-eligible patients with deep vein thrombosis (DVT) from the denominator treated as outpatients*

*Include patients who do not have an inpatient admission within 7 days of diagnosis. Do not consider stays in observation units as inpatient admission.

Exclusions

Unspecified

DENOMINATOR TIME WINDOW

Time window precedes index event

NUMERATOR TIME WINDOW

Episode of care

DATA SOURCE

Administrative data

Laboratory 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

Percentage of LMWH-eligible patients with DVT treated in an outpatient setting.

MEASURE COLLECTION

[Venous Thromboembolism Measures](#)

DEVELOPER

Institute for Clinical Systems Improvement

ADAPTATION

Measure was not adapted from another source.

RELEASE DATE

2003 Apr

REVISION DATE

2004 Feb

MEASURE STATUS

This is the current release of the measure.

This measure updates a previous version: Institute for Clinical Systems Improvement (ICSI). Venous thromboembolism. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2003 Apr. 93 p.

SOURCE(S)

Institute for Clinical Systems Improvement (ICSI). Venous thromboembolism. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2004 Feb. 92 p. [254 references]

MEASURE AVAILABILITY

The individual measure, "Percentage of LMWH-eligible patients with DVT treated in an outpatient setting," is published in "Health Care Guideline: Venous Thromboembolism." This document is available from the [Institute for Clinical Systems Improvement \(ICSI\) Web site](#).

For more information, contact ICSI at, 8009 34th Avenue South, Suite 1200, Bloomington, MN 55425; phone: 952-814-7060; fax: 952-858-9675; Web site: www.icsi.org; e-mail: icsi.info@icsi.org.

NQMC STATUS

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