



Complete Summary

TITLE

Ankle sprain: percentage of patients with acute ankle sprain receiving ankle x-rays at clinic within 3 days of the initial injury.

SOURCE(S)

Institute for Clinical Systems Improvement (ICSI). Ankle sprain. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2003 Jul. 26 p. [26 references]

Brief Abstract

DESCRIPTION

This measure assesses the percentage of patients with acute ankle sprain receiving ankle x-rays at clinic within 3 days of the initial injury.

RATIONALE

The priority aim addressed by this measure is to improve the appropriate use of diagnostic imaging for patients presenting with acute ankle sprain injuries.

PRIMARY CLINICAL COMPONENT

Ankle sprain; x-ray

DENOMINATOR DESCRIPTION

Total number of patients with acute ankle sprain 5 years and older seen within 3 days of the initial injury (patient has not been seen in the clinic with a diagnosis of ankle sprain within the past 6 months) (see the related "Denominator Inclusions/Exclusions" field in the Complete Summary)

NUMERATOR DESCRIPTION

Number of patients with acute ankle sprain in the denominator receiving ankle x-rays (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

- [Ankle sprain.](#)

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 5 years

TARGET POPULATION GENDER

Either male or female

STRATIFICATION BY VULNERABLE POPULATIONS

Unspecified

Characteristics of the Primary Clinical Component

INCIDENCE/PREVALENCE

Inversion sprains account for over 85% of ankle injuries. The ankle radiographic series is one of the most commonly performed x-rays in primary care. It is believed less than 15% of the ankle radiographs done to evaluate ankle trauma demonstrate a significant fracture.

EVIDENCE FOR INCIDENCE/PREVALENCE

Institute for Clinical Systems Improvement (ICSI). Ankle sprain. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2003 Jul. 26 p. [26 references]

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

IOM DOMAIN

Effectiveness

CASE FINDING

Users of care only

DESCRIPTION OF CASE FINDING

Patients age 5 years and older presenting with acute lateral ankle pain caused by inversion of the ankle

Medical groups should identify acute ankle injury patients seen at the clinic. Inversion injuries is defined operationally as turning ankle "in" and "under" or "twisting." These injuries most frequently occur during walking, running, or during participation in sporting activities. The definition of the sprain could also include one of the three lateral ligaments of the ankle (fibulocalcaneal, talofibular, or anterior talofibular). Each medical group will need to identify which terms their physicians use to describe inversion sprains. The medical group can then generate a list of all eligible acute ankle sprain patients seen during the target month. A random sample of 10 charts can be chosen from the list. The eligible patients are those who are 5 years and older and have not been in the clinic with an ankle sprain within the previous 6 months. The patient's medical records will be reviewed to determine if the patient received an x-ray within 3 days of the initial injury. Ankle x-rays would include Anterior-Posterior (AP), Lateral, and/or Mortis views.

A minimum of 10 charts per month should be reviewed. Data can be collected monthly.

DENOMINATOR SAMPLING FRAME

Patients associated with provider

DENOMINATOR (INDEX) EVENT

Clinical Condition
Encounter

DENOMINATOR INCLUSIONS/EXCLUSIONS

Inclusions

Total number of patients with acute ankle sprain* 5 years and older seen within 3 days of the initial injury

*Patients with a diagnosis code of V72.5, 719.47, 729.5, 845, 845.0, 845.00, 845.02, 845.03, 845.10, or 848.9 who have not been seen in clinic with the same diagnosis codes within the previous 6 months.

Exclusions
Unspecified

NUMERATOR INCLUSIONS/EXCLUSIONS

Inclusions

Number of patients with acute ankle sprain in the denominator receiving ankle x-rays*

*Patients with a diagnosis code of V72.5, 719.47, 729.5, 845, 845.0, 845.00, 845.02, 845.03, 845.10, or 848.9 and having an ankle x-ray (Current Procedure Terminology [CPT-4] codes 73600 or 73610).

Exclusions

Unspecified

DENOMINATOR TIME WINDOW

Time window is a single point in time

NUMERATOR TIME WINDOW

Encounter or point in time

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 lower score

ALLOWANCE FOR PATIENT FACTORS

Unspecified

STANDARD OF COMPARISON

Internal time comparison

PRESCRIPTIVE STANDARD

The target goal for this measure is towards 0%.

EVIDENCE FOR PRESCRIPTIVE STANDARD

Institute for Clinical Systems Improvement (ICSI). Ankle sprain. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2003 Jul. 26 p. [26 references]

Evaluation of Measure Properties

EXTENT OF MEASURE TESTING

Unspecified

Identifying Information

ORIGINAL TITLE

Percentage of patients with acute ankle sprain receiving ankle x-rays at clinic within 3 days of the initial injury.

MEASURE COLLECTION

[Ankle Sprain Measures](#)

DEVELOPER

Institute for Clinical Systems Improvement

ADAPTATION

Measure was not adapted from another source.

RELEASE DATE

2003 Jul

MEASURE STATUS

This is the current release of the measure.

SOURCE(S)

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MEASURE AVAILABILITY

The individual measure, "Percentage of patients with acute ankle sprain receiving ankle x-rays at clinic within 3 days of the initial injury," is published in "Health Care Guideline: Ankle Sprain." 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

This NQMC summary was completed by ECRI on May 11, 2004.

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