



Complete Summary

TITLE

Diagnosis and treatment of adult degenerative joint disease (DJD) of the knee: percentage of patients diagnosed with DJD with knee x-ray panels that include a standing view of the knee.

SOURCE(S)

Institute for Clinical Systems Improvement (ICSI). Diagnosis and treatment of adult degenerative joint disease (DJD) of the knee. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2003 Nov. 43 p. [40 references]

Brief Abstract

DESCRIPTION

This measure assesses the percentage of patients diagnosed with degenerative joint disease (DJD) with knee x-ray panels that include a standing view of the knee.

RATIONALE

The priority aim addressed by this measure is to improve the efficacy of diagnostic imaging for evaluating degenerative joint disease (DJD).

PRIMARY CLINICAL COMPONENT

Degenerative joint disease; diagnostic imaging; x-ray (standing view)

DENOMINATOR DESCRIPTION

Total number of patients with a diagnosis specific for degenerative joint disease (DJD) in the knee who have any knee x-ray panel taken

NUMERATOR DESCRIPTION

Number of patients with degenerative joint disease (DJD) with a knee x-ray panel that includes a standing view (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

- [Diagnosis and treatment of adult degenerative joint disease \(DJD\) of the knee.](#)

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

The American College of Rheumatology reports that more than 21 million Americans are affected by osteoarthritis (OA). It is the most common type of arthritis, which is the leading cause of disability in the United States. The Centers for Disease Control and Prevention (CDC) estimates that by the year 2020, sixty million Americans, or almost 20% of the population, will be affected by some form of arthritis, and nearly 12 million will experience activity limitation.

EVIDENCE FOR INCIDENCE/PREVALENCE

Institute for Clinical Systems Improvement (ICSI). Diagnosis and treatment of adult degenerative joint disease (DJD) of the knee. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2003 Nov. 43 p. [40 references]

ASSOCIATION WITH VULNERABLE POPULATIONS

Unspecified

BURDEN OF ILLNESS

Unspecified

UTILIZATION

Unspecified

COSTS

Total costs associated with arthritis are estimated by the Centers for Disease Control and prevention (CDC) to be almost \$65 billion annually.

EVIDENCE FOR COSTS

Institute for Clinical Systems Improvement (ICSI). Diagnosis and treatment of adult degenerative joint disease (DJD) of the knee. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2003 Nov. 43 p. [40 references]

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 age 18 and older with a diagnosis of degenerative joint disease (DJD)

The medical records of a random sample of patients who have a DJD diagnosis specific to the knee may be reviewed monthly. From the claims (billing) data, all patients age 18 and older with DJD of the knee may be identified. If possible, this list might be reduced to include only those who had knee x-rays at that visit. This patient pool may then be used to randomly select cases for review of the x-ray panels taken and determination of which of those panels included a standing view x-ray. Alternatively, the DJD Optional Data Collection Tool (provided as an example at the end of the measurement section of the original guideline [Refer to the National Guideline Clearinghouse (NGC) summary of the Institute for Clinical Systems Improvement (ICSI) guideline [Diagnosis and Treatment of Adult Degenerative Joint Disease \(DJD\) of the Knee](#)]) could be used for data collection as patients present with a painful knee.

Data may be collected monthly.

DENOMINATOR SAMPLING FRAME

Patients associated with provider

DENOMINATOR (INDEX) EVENT

Clinical Condition
Diagnostic Evaluation

DENOMINATOR INCLUSIONS/EXCLUSIONS

Inclusions

Total number of patients with a diagnosis specific for degenerative joint disease (DJD) in the knee who have any knee x-ray panel taken

Exclusions
Unspecified

NUMERATOR INCLUSIONS/EXCLUSIONS

Inclusions

Number of patients diagnosed with degenerative joint disease (DJD) with a knee x-ray panel that includes a standing view

X-ray panels that include a standing view might be identified by the following Current Procedure Terminology (CPT) codes:

- 73564 - Complete, including oblique(s), and tunnel, and/or patellar and/or standing views (this code is used as a 4 view code, i.e., code 73560 plus a standing view)
- 73565 - Radiologic examination, both knees, standing, anteroposterior

Degenerative joint disease (DJD) of the knee might be identified using the following International Classification of Diseases, Ninth Revision (ICD-9) codes:

- 715.96 - Osteoarthritis (degenerative) of the lower leg
- 715.16 - Osteoarthritis (degenerative) idiopathic, primary, lower leg
- 715.26 - Osteoarthritis (degenerative) secondary, lower leg
- 715.36 - Osteoarthritis (degenerative) localized, lower leg

Exclusions
Unspecified

DENOMINATOR TIME WINDOW

Time window precedes index event

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 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 patients diagnosed with DJD with knee x-ray panels that include a standing view of the knee.

MEASURE COLLECTION

[Diagnosis and Treatment of Adult Degenerative Joint Disease \(DJD\) of the Knee Measures](#)

DEVELOPER

Institute for Clinical Systems Improvement

ADAPTATION

Measure was not adapted from another source.

RELEASE DATE

2003 Nov

MEASURE STATUS

This is the current release of the measure.

SOURCE(S)

Institute for Clinical Systems Improvement (ICSI). Diagnosis and treatment of adult degenerative joint disease (DJD) of the knee. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2003 Nov. 43 p. [40 references]

MEASURE AVAILABILITY

The individual measure, "Percentage of patients diagnosed with DJD with knee x-ray panels that include a standing view of the knee," is published in "Health Care Guideline: Diagnosis and Treatment of Adult Degenerative Joint Disease (DJD) of the Knee." 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 July 19, 2004.

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