

# Incidence of End-Stage Kidney Disease (ESKD), by Primary Diagnosis

Name	Incidence of End-Stage Kidney Disease (ESKD), by Primary Diagnosis
Short/Other Names	Not applicable
Description	Breakdown by primary diagnosis of all incident patients (new patients) with end-stage kidney disease who began renal replacement therapy (RRT) (either dialysis or renal transplantation) for the first time in the calendar year
Interpretation	Increasing incidence rates over time have important implications for resources, disease management and the need for kidney donation.
HSP Framework Dimension	Health System Outcomes: Improve health status of Canadians
Areas of Need	Not applicable
Geographic Coverage	All provinces/territories except Quebec
Reporting Level/Disaggregation	Province/Territory, Breakdown by sex, breakdown by age categories
Indicator Results	<a href="#">Incident End-Stage Renal Disease (ESRD) Patients by Primary Diagnosis</a>

## Identifying Information

Name Incidence of End-Stage Kidney Disease (ESKD), by Primary Diagnosis

Short/Other Names Not applicable

Indicator Description and Calculation

Description

Breakdown by primary diagnosis of all incident patients (new patients) with end-stage kidney disease who began renal replacement therapy (RRT) (either dialysis or renal transplantation) for the first time in the calendar year

Calculation: Description

Counts and rates are based on patients registered during a given calendar year in a Canadian facility. Patients who began RRT for ESKD outside of Canada but are subsequently treated in Canada are included in prevalence counts but not incidence counts.

Calculation: Geographic Assignment

Place of service

Calculation: Type of Measurement

Rate - Per 1,000,000

Calculation: Adjustment Applied

None

Calculation: Method of Adjustment

Not applicable

Denominator

**Description:**  
Canadian population

**Inclusions:**

All Canadians currently residing in Canada

**Exclusions:**

Not applicable

**Description:**

Patients registered in the Canadian Organ Replacement Register (CORR) who started RRT for ESKD

**Inclusions:**

Patients registered in CORR during a given calendar year (January 1–December 31)

Numerator

Patients must have a valid primary diagnosis code.

**Exclusions:**

Patients who began RRT for ESKD outside of Canada but are subsequently treated in Canada

Background, Interpretation and Benchmarks

Rationale

Disease etiology can be tracked by viewing changes in the primary diagnosis over time. There are significant costs associated with treating this patient group.

Interpretation

Increasing incidence rates over time have important implications for resources, disease management and the need for kidney donation.

HSP Framework Dimension

Health System Outcomes: Improve health status of Canadians

Areas of Need

Not applicable

Targets/Benchmarks

Not applicable

Nesrallah GE, Mustafa RA, Clark WF, et al. Canadian Society of Nephrology 2014 Clinical Practice Guideline for Timing the Initiation of Chronic Dialysis. *CMAJ*. 2014;186(2):112-117. Available at <http://www.cmaj.ca/content/186/2/112>

References

Availability of Data Sources and Results  
Data Sources

Available Data Years

Geographic Coverage  
Reporting Level/Disaggregation  
Result Updates  
Update Frequency

Indicator Results

Updates  
Quality Statement

Caveats and Limitations

Trending Issues

Comments

Levin A, Hemmelgarn B, Culleton B, et al. Guidelines for Management of Chronic Kidney Disease. *CMAJ*. 2008;179(11):1154-1162. Available at <http://www.cmaj.ca/content/179/11/1154>

CORR

**Type of Year:**

Calendar

**First Available Year:**

2008

**Last Available Year:**

2017

All provinces/territories except Quebec

Province/Territory, Breakdown by sex, breakdown by age categories

Every year

**Web Tool:**

Quick Stats

**URL:**

[Incident End-Stage Renal Disease \(ESRD\) Patients by Primary Diagnosis](#)

Not applicable

The indicator is based on voluntary data submitted to CORR from facilities across Canada. Submission of data for patients beginning RRT for ESKD is not mandatory.

Data from Quebec was not included because of significant under-reporting between 2011 and 2017, which may lead to biased results.

An overview of under-reporting of incident ESKD cases can be found in *Data Quality Documentation for Users: Canadian Organ Replacement Register, 2008 to 2017 Data*.

Not applicable