

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

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| 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<br>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: Description                  | Place of service<br>Rate - Per 1,000,000   |
| Calculation: Geographic Assignment        | None   |
| Calculation: Type of Measurement          | Not applicable   |
| Calculation: Adjustment Applied           | <b>Description:</b><br>Canadian population   |
| Calculation: Method of Adjustment         | <b>Inclusions:</b><br>All Canadians currently residing in Canada<br><b>Exclusions:</b><br>Not applicable<br><b>Description:</b><br>Patients registered in the Canadian Organ Replacement Register (CORR) who started RRT for ESKD<br><b>Inclusions:</b><br>Patients registered in CORR during a given calendar year (January 1–December 31)  |
| Denominator                               | Patients must have a valid primary diagnosis code.<br><b>Exclusions:</b><br>Patients who began RRT for ESKD outside of Canada but are subsequently treated in Canada   |
| Numerator                                 |  |
| 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<br>Nesrallah GE, Mustafa RA, Clark WF, et al. Canadian Society of Nephrology 2014 Clinical Practice Guideline for Timing the Initiation of Chronic Dialysis. <i>CMAJ</i> . 2014;186(2):112-117. Available at <a href="http://www.cmaj.ca/content/186/2/112">http://www.cmaj.ca/content/186/2/112</a>  |
| 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