

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	Incident End-Stage Renal Disease (ESRD) Patients by Primary Diagnosis

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

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

References 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 Levin A, Hemmelgarn B, Culeton 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>

Availability of Data Sources and Results

Data Sources	CORR
	Type of Year: Calendar
Available Data Years	First Available Year: 2010 Last Available Year: 2019
Geographic Coverage	All provinces/territories except Quebec
Reporting Level/Disaggregation	Province/Territory, Breakdown by sex, breakdown by age categories
Result Updates	
Update Frequency	Every year
Indicator Results	Web Tool: Quick Stats URL: Incident End-Stage Renal Disease (ESRD) Patients by Primary Diagnosis
Updates	Not applicable
Quality Statement	
Caveats and Limitations	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.
Trending Issues	Data from Quebec was not included because of significant under-reporting between 2011 and 2019, 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, 2010 to 2019 Data .
Comments	Not applicable