

Incidence of End-Stage Kidney Disease (ESKD), by Age Group, Sex, Province, Rate per Million Population

Name	Incidence of End-Stage Kidney Disease (ESKD), by Age Group, Sex, Province, Rate per Million Population
Short/Other Names	Not applicable
Description	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	National, Province/Territory, Breakdown by sex, breakdown by age categories
Indicator Results	Incident End-Stage Renal Disease (ESRD) Patients
Identifying Information	
Name	Incidence of End-Stage Kidney Disease (ESKD), by Age Group, Sex, Province, Rate per Million Population
Short/Other Names	Not applicable
Indicator Description and Calculation	
Description	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	<p>Description: Canadian population</p> <p>Inclusions: All Canadians currently residing in Canada</p> <p>Exclusions: Not applicable</p> <p>Description: Patients registered in the Canadian Organ Replacement Register (CORR) who started RRT for ESKD</p> <p>Inclusions: Patients registered in CORR during a given calendar year (January 1–December 31)</p> <p>Exclusions: Patients who began RRT for ESKD outside of Canada but are subsequently treated in Canada</p>
Numerator	<p>Description: Patients registered in CORR during a given calendar year (January 1–December 31)</p> <p>Inclusions: Patients registered in CORR during a given calendar year (January 1–December 31)</p> <p>Exclusions: Patients who began RRT for ESKD outside of Canada but are subsequently treated in Canada</p>
Background, Interpretation and Benchmarks	
Rationale	Tracking incidence is important to determine the number of new cases of patients beginning RRT for ESKD each year. Tracking incidence can quantify how the need for intervention may change 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	<p>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 http://www.cmaj.ca/content/186/2/112</p> <p>Levin A, Hemmelgarn B, Culeton B, et al. Guidelines for Management of Chronic Kidney Disease. <i>CMAJ</i>. 2008;179(11):1154-1162. Available at http://www.cmaj.ca/content/179/11/1154</p>
Availability of Data Sources and Results	
Data Sources	CORR

	Type of Year:
	Calendar
Available Data Years	First Available Year: 2009
	Last Available Year: 2018
Geographic Coverage	All provinces/territories except Quebec
Reporting Level/Disaggregation	National, Province/Territory, Breakdown by sex, breakdown by age categories
Result Updates	
Update Frequency	Every year
	Web Tool:
Indicator Results	Quick Stats
	URL:
	Incident End-Stage Renal Disease (ESRD) Patients
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. Records submitted with unknown sex are not included in these totals.
	Data from Quebec was not included because of significant under-reporting between 2011 and 2018, which may lead to biased results.
Trending Issues	An overview of under-reporting of incident ESKD cases can be found in Data Quality Documentation for Users: Canadian Organ Replacement Register, 2009 to 2018 Data .
Comments	Not applicable