

# Renin Angiotensin SyStem blockade: diabetes nephropathy

<b>Submission date</b> 19/07/2004	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered
<b>Registration date</b> 22/07/2004	<b>Overall study status</b> Completed	<input type="checkbox"/> Protocol
<b>Last Edited</b> 27/10/2021	<b>Condition category</b> Nutritional, Metabolic, Endocrine	<input type="checkbox"/> Statistical analysis plan
		<input checked="" type="checkbox"/> Results
		<input type="checkbox"/> Individual participant data

**Plain English summary of protocol**  
Not provided at time of registration

## Contact information

**Type(s)**  
Scientific

**Contact name**  
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## Additional identifiers

**ClinicalTrials.gov (NCT)**  
NCT00143949

**Protocol serial number**  
DCT-14281

# Study information

## Scientific Title

Renin Angiotensin SyStem blockade: diabetes nephropathy

## Acronym

RASS

## Study objectives

Inhibition of the renin angiotensin system will protect the kidney.

## Ethics approval required

Old ethics approval format

## Ethics approval(s)

Approval received from the Mount Sinai research ethics board

## Study design

Randomised controlled trial

## Primary study design

Interventional

## Study type(s)

Treatment

## Health condition(s) or problem(s) studied

Diabetic Nephropathy (DN)

## Interventions

1. Angiotensin-Converting Enzyme (ACE) inhibitor: Enalapril
2. Angiotensin Receptor Blocker: Losarten

## Intervention Type

Drug

## Phase

Not Specified

## Drug/device/biological/vaccine name(s)

Enalapril, Losarten

## Primary outcome(s)

The primary outcome is to determine, in Type one diabetes without clinical evidence of diabetic nephropathy, if inhibition of the renin-angiotensin system activity can prevent or retard the rate of development of the histologic lesions associated with diabetic nephropathy.

## Key secondary outcome(s)

1. Retinopathy
2. Microalbuminuria

3. Blood pressure
4. GFR
5. Creatinine

**Completion date**

01/03/2007

## Eligibility

**Key inclusion criteria**

1. Patients with type one diabetes
2. Normal Glomerular Filtration Rate (GFR) and Blood Pressure (BP)
3. Normoalbuminuria
4. Either sex, 18 to 64 years of age

**Participant type(s)**

Patient

**Healthy volunteers allowed**

No

**Age group**

Adult

**Lower age limit**

18 years

**Sex**

All

**Total final enrolment**

223

**Key exclusion criteria**

1. Type one Diabetes Mellitus longer than 20 years
2. BP more than 135/85 mmHg
3. GFR less than 90 ml/min
4. Microalbuminuria
5. Solitary kidney
6. Other chronic disease
7. Pregnancy or planning pregnancy within two years of randomisation

**Date of first enrolment**

01/03/1997

**Date of final enrolment**

01/03/2007

## Locations

## Countries of recruitment

Canada

## Study participating centre

Leadership Sinai Centre for Diabetes

Toronto, ON

Canada

M5G 1X5

## Sponsor information

### Organisation

Canadian Institutes of Health Research (CIHR) (Canada)

### ROR

<https://ror.org/01gavpb45>

## Funder(s)

### Funder type

Research organisation

### Funder Name

Canadian Institutes of Health Research (CIHR) (Canada) - <http://www.cihr-irsc.gc.ca> (ref: DCT-14281)

### Funder Name

Merck Frosst Canada & Co (Canada)

## Results and Publications

### Individual participant data (IPD) sharing plan

Not provided at time of registration

### IPD sharing plan summary

Not provided at time of registration

### Study outputs

**Output type**  
[Results article](#)

**Details**

**Date created**  
01/08/2011

**Date added**  
27/10/2021

**Peer reviewed?**  
Yes

**Patient-facing?**  
No