Electronic Table A: Inclusion criteria

1. The Research Ethics Board at the Hospital for Sick Children (Toronto, Canada) approved the protocol
2. Duration of type 1 DM ≥5 years, age ≥16 years
3. Tanner Stage 4–5 puberty
4. Normoalbuminuria [24 hour urine albumin excretion rate (AER) <20 µg/min]
5. Clinic blood pressure <140/90 mmHg
6. No microvascular disease
7. No macrovascular disease
8. Non-smokers
9. No regular medication
10. Absence of chronic illness
11. Dietary sodium (>140 mmol/day) and protein (<1.5 gm/kg/day) within the desired range
12. Follicular phase of the menstrual cycle (determined by counting days and by measuring 17β-estradiol levels)
13. Not currently using hormonal contraceptive agents

Electronic Table B: Characteristics in hyperfiltering and normofiltering subjects (mean±SD)

| Parameter                        | Hyperfiltering group (n=20) | Normofiltering group (n=18) |
|----------------------------------|-----------------------------|-----------------------------|
| Age (years)                      | 20±4                        | 22±5                        |
| Gender (men:women)               | 13:7                        | 12:6                        |
| Diabetes Duration (years)        | 15±4                        | 17±5                        |
| Body Mass Index (kg/m²)          | 25.7±3.9                    | 25.2±2.2                    |
| Albumin excretion rate (µg/minute)| 5.5±4.1                    | 3.9±5.1                     |
| Sodium excretion (mmol/day)      | 270±71                      | 257±92                      |
| Protein intake (gm/kg/day)       | 0.98±0.41                   | 0.90±0.46                   |
| Hemoglobin A1C (%)               | 8.6±0.4                     | 8.3±0.2                     |
| Estradiol in women (pmol/L)      | 140±38                      | 184±84                      |

Urinary albumin excretion rate was determined from a 24 hour urine collection by immunoturbidimetry. HbA1C was measured by high-performance liquid chromatography.