CKDCS Primary Data

A. Clinical
1. Socio-demographic characteristics (medical history, social history and satisfaction with care information). Information from the clinical record is used to supplement the history.
2. Qualitative Data obtained via KDQOL and an Attitudes Toward Transplantation Questionnaire

B. Laboratory data
1. Blood – multiple aliquots for DNA, RNA, cells and plasma will be extracted and stored
2. Urine, and Dialysate/effluent: aliquots stored for future measurements of genetic and cellular material
3. Finger/toe nail
4. Source water collection - stored for future analysis
5. Bacteremia screening: data on episodes and treatment

C. Imaging
1. Coronary CT for vascular calcification
2. Coronary MRI for cardiac geometry (left ventricular mass & function)

D. Others
1. Death adjudication, comorbidities, ESRD causes codes, ECG, Smoking

Additional Data Sources

A. Local Renal Program Databases
1. Additional laboratory data
2. Medications use; eg. iron, erythropoetin use
3. Dialysis access utility data
4. Dialysis access infections episodes and treatment data
5. Transplant assessment and status

B. Provincial Health Authorities databases
1. Physicians claims; data and location of service, Diagnostic code (ICD 9), Provider specialty, Cost.
2. Inpatient encounters; Admission and discharge dates, Diagnostic and procedure costs (ICD 9 & 10, Costs, Case mix group
3. Ambulatory care; date, nature and location of service, Diagnostic and procedure costs, Costs, Case mix group
4. Medications usage; formulary drugs, prescription date, cost & quantity
5. Date of birth, gender, First nation status

C. 2001 Canadian Census
1. Postal code – rural/urban residence
2. Socio-economic status - median household income

D. Provincial Laboratory Services
1. Results from haematological, biochemical, serological and immunological tests
2. Others; tumour markers, genetics, etc

Potential Data Use Applications

A. Cross-sectional
1. Role of anemia, bone metabolism, inflammatory marks, endothelial dysfunction, genetic factors, and socio-demographic factors (age, gender, race, first nation status, residence location, socio-economic status) on CVD at dialysis inception
2. Assessment of pre-dialysis care and its impact on adverse outcomes
3. Access and utility of kidney transplantation

B. Prospective
1. Determinants of all-cause mortality
2. Determinants of dialysis access failure and consequences
3. Determinants of poor quality of life and functional status
4. Assessment of care delivery quality, impact and satisfaction
5. Bacteremia screening: data on episodes and treatment