



## Some answers come only via a healthcare provider's perspective



As a wholly owned subsidiary of DaVita HealthCare Partners, DaVita Clinical Research (DCR) has access to large, clinically rich, de-identified datasets available for purchase.

Our warehouse of data is the result of providing **care for nearly 400,000 patients** receiving in-center hemodialysis, home hemodialysis, peritoneal dialysis, or nocturnal dialysis during the last five years at more than **2,400 dialysis centers nationwide.**

### Questions DCR can help answer



#### Who?



- Patients
- Physicians
- Nurses
- Technologists
- Pharmacists
- Healthcare providers

#### When?



- Day/Month/Year
- Service dates
- Treatment duration
- Progression
- Incidence/Prevalence
- Thresholds & Behavior

#### What?



- Treatment records
- Medication administration
- Laboratory tests & results
- Access placements & events
- Home medication reviews
- Orders
- Machines/Equipment
- Water systems
- Comorbidities
- Primary causes

#### Where?



- Dialysis centers
- Network
- Region
- City/State

#### Why?



- Monitoring reports
- Analytics
- Database products



## Comprehensive real-world data

The custom in-center electronic medical record system at DaVita allows us to capture all elements of the care delivery process.

And with time and date stamps around nearly every process, you'll have visibility into virtually every stage of care. As a patient receives dialysis treatments in DaVita centers, we capture changes in clinical status, such as new onset of comorbidities, medication use outside our centers, and hospitalizations. Data can also be sorted by facility, state or region according to your requirements.

Basic demographic characteristics are similar to those reported in the end stage renal disease (ESRD) population at large, as reported by the United States Renal Data System (USRDS).

### National ESRD Population\*

Mean Age	61
Diabetes	71.8%
Black	36.8%
Hispanic	17.1%
Asian	5.3%

### DaVita ESRD Population

Mean Age	61
Diabetes	67.3%
Black	36.1%
Hispanic	16.2%
Asian	3.7%

\*US Renal Data System USRDS 2013 Annual Data Report, IH, NIDDK, Bethesda, MD, 2013.

## Explore the range of data solutions we can offer:

### Patient Information

- Demographics (age, race, gender, height)
- ESRD background (dialysis start date, primary cause, transplant date/status, mortality)
- Payer information (primary, secondary)
- Comorbidity flags (CHF, DM, COPD)

### Treatment Information

- Background (PID, date, facility, modality)
- Usage (duration, dialysate quantity, equipment type, access type)
- Pre-/post- clinical measures (weight, BP)

### Patient Monthly Aggregate Information

- Missed treatments
- Reason for missed treatments (access, equipment, compliance, vacation)
- Hospitalizations

## Detailed Comorbidity Information

- ICD9/ICD10 codes, names
- Start/End dates for comorbidities

## Access Data

- Vascular access (type, subtype, site, cuff)
- Insertion and removal dates
- Access start and end dates
- Surgeon/Facility
- Treatments per access
- Access events (dates, codes)
- Access interventions

## IV Medications

- Medication name
- Start/End dates
- Physician order details
- Amounts administered in center (units, dosage)

## Home Medications

- Drug name(s) (generic, brand)
- Start/End dates, order date, and instructions
- Dosage (units, amounts, frequency, daily dosage calculated)

## Facility and Workflow

- Clinic (address, hours, organization)
- Schedules (day, shift, station, start, stop)

## Hemodialysis Treatments

- Dialyzer (manufacturer, series, model, KOA)
- Dialysate (bicarbonate, K, calcium, NA model, temp)
- Flow rates (dialysis, blood, volume removed)
- Treatment date/time
- Target weight
- Heparin (type, bolus, infusion time, AV)
- Access (needle, tip, submodality, UF)

## Peritoneal Dialysis Treatments

- Dialysate (calcium, magnesium, dextrose)
- Type (IPD, CAPD, CCPD)
- Fills (fill/dwell/drain times, volume)
- Cycles (time, night, number)
- Tidal %

## Vitals

- BP (sitting, standing)
- Pulse (pre/post)
- Weight (pre/post)
- Static pressure A/V
- Volume (removed total/goal)
- Bleeding (location, stop time)
- Conductivity, pH, temperature

## In-Session Readings

- Date/Time
- BP and pulse
- A/V pressure, membrane pressure
- Volume processed/removed
- Saline and sodium levels
- Heparin

## Orders

- Treatments, medications, and labs
- Start/Stop/Continue dates
- Physician/Nurse approval date
- Protocol
- Route/Instructions/Frequency
- ICD9/ICD10 justifications, reason DC
- Dietary restrictions (sodium, phosphorus, potassium, calorie)
- NDC Codes

## Lab and Culture Results

- Tests, ranges, result values
- Draw dates
- Micro-organism tests and results
- Culture type
- Organism (MIC, sensitivities)



With a large number of patients receiving long-term care at DaVita, DCR can offer five or more years of continuous data available for more than 100,000 dialysis patients.

## Quality of data is our focus

The real-world data and reports from DaVita Clinical Research (DCR) have the clinical depth and breadth that come from a large healthcare provider. Rigorous business rules are applied to build robust data sets to help you better understand your market. We take a longitudinal view of the patient journey through end stage renal disease and provide the insights that are informed by our expert-led team and key opinion leaders.

The extensive data service solutions from DCR can help inform your decisions in any phase, including development, pre-launch, and post-launch.

Our real-world clinical data may hold the answers to discrete questions in support of your clinical research and commercialization strategies.

## Discover the impact our data can have.

Talk to a DaVita Clinical Research representative today at **1-888-345-2567** or visit [www.davitaclinicalresearch.com](http://www.davitaclinicalresearch.com).

