cyberREN® is a new generation, off-the-shelf renal clinical data management solution designed to address your clinical and administrative needs.

QUALITY, EFFICIENCY & CONSISTENCY IN RENAL CARE

- Is the most comprehensive renal system approved by the FDA
- Supports all treatment modalities: pre-dialysis, hemodialysis, peritoneal dialysis (PD), transplant, slow nocturnal home dialysis
- Is flexible and modifiable
- Generates user-specified clinical reports and graphs
- Has multi-disciplinary use
- Supports different communication systems and networking
- Works in over 80 renal installations world-wide
- Is marketed and serviced by a team of dedicated clinicians and information technologists

SYSTEM OVERVIEW

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cyberREN® uses the Problem Oriented Recording (POR) to provide a comprehensive and seamless electronic charting system. The POR Method integrates critical patient charting functions:

- Diagnosis, Coding (ICD-9, ICD-10), and Charting
- Tracking and Monitoring (e.g. CPT-4, OPCS-4) of Problems, Treatments, Procedures and Relevant Costs
- Controlling and Verification of Treatment Results, Associating Patient Problems and Procedures for Accurate Billing
- cyberREN® delivers better quality care with greater cost efficiency, i.e:
  - Complete integration of historical data: diagnosis, treatment, and outcome
  - Treatment strategy justification: automatically available for billing purposes
  - Linking diverse care disciplines, allowing each to simultaneously view and enter data into the patient’s chart
  - Direct access to other clinical information systems through cyberREN® interfaces
  - Linking critical information: data entered at a single cyberREN® chart location is automatically sent to populate other areas of the patient’s chart
cyberREN® offers a complete suite of hemodialysis functionality to automate and improve the clinical management of the hemodialysis program within a care facility.

**Efficient and Complete Charting**

- Reduction of charting effort: eliminates transcription errors, allows data archiving, mining and statistical analysis
- Standardization of data for all patients and dialysis machine types: facilitates patient scheduling, allows treatment modality change
- Auto-calculation of actual KT/V, PRU, UFR, weight change, and excess weight, automatic compensation for wheelchair and prostheses weights
- Provision of complete session record including pre dialysis, intra dialysis (session log) and post dialysis charting, order changes, incidents and session alerts, medications, heparinization, equipment preparation, nursing notes and access assessment

**Quality Assurance**

- Quality control at the end of every treatment
- Automatic alert system based on all prescribed and modified activities and parameters
- Monitoring and displaying the effectiveness of treatment
- Error prevention: an individual session record cannot be closed in cyberREN® until all ordered medications are given, or a reason is entered for not giving the medication

**Cost Monitoring and Transparency**

- All charges incurred during treatment are captured and forwarded to a third party billing system, eliminating transcription activity as well as missed billings and justification errors
- As a hemodialysis machine vendor neutral solution cyberREN® can communicate with several different brands of dialysis machines, allowing the facility purchase flexibility in the future, and maintaining a level of competition for the clinic’s business
cyberREN® offers a complete suite of peritoneal dialysis (PD) functionality to automate and improve the clinical management of the PD program within a renal care facility.

- All data related to PD orders, treatment, peritonitis episodes and access is stored for patient monitoring, historical analysis, graphical trending, and data archiving.
- The complete patient chart is transferred along with the patient from a Hemodialysis or Pre-dialysis treatment modality into the Peritoneal Dialysis modality; all past records pertaining to the patient are available to the Peritoneal Dialysis team.
- Support for CAPD, IPD and CCPD types of peritoneal dialysis. Automatic calculations are supported for all modalities, such as the total number of day and night exchanges, total day and night volumes, and volume of last fill.
- A dedicated feature captures the charting pertaining to a patient’s clinic visit, a chart defined in the form of a standard (physical) examination may be defined by the user to supplement the standard clinic visit form.
- Graphical and tabular analysis of PD data provides physicians the opportunity to monitor the effectiveness of treatment. User defined graphics and tables may be generated and displayed on-screen and printed.
- Complete capture of peritoneal access installation, revisions and complications as well as assessments.
- Comprehensive support for the capture of treatment parameters, including the assessment of dialysate.
- Complete capture of episodes of peritonitis. All peritonitis episodic data is presented on a single screen for easy viewing of symptoms and treatment. Peritonitis episodes are automatically logged as significant events in the patient’s chart in the event history listing.
- Capture of infectious organism and its sensitivity to specific medication improves the treatment outcome of future peritonitis episodes.
- Support for peritoneal equilibrium testing.
- cyberREN® Panels, a specific, user definable form of flow sheet, allows the rapid and meaningful review of laboratory data along with all related treatment parameters, in both a tabular as well as a graphical format.
- PD patient management is supported by a comprehensive spreadsheet function calculating access failure and peritonitis rates and other long-term indices, PD efficiency and associated dosages of required medications. ODBC based access allows third party statistical tools to query the cyberREN® database in any user definable manner.
- A complete set of PD related, user modifiable, standard data catalogues complement cyberREN®’s functionality, fostering consistent charting and allowing a statistical analysis of most chart content.
cyberREN® offers a complete suite of transplant functionality to automate and improve the clinical management of the transplant program within a renal care facility.

- The complete patient chart is transferred along with the patient from a dialysis treatment modality into the transplant modality, all past records pertaining to the patient are available to the transplant follow-up team.
- cyberREN® offers a comprehensive, user definable transplant workup function, to assist in maintaining an accurate Transplant List. cyberREN® allows the care-giver to manage potential transplant recipient activities including the planning, ordering, and tracking of the associated preparations and workups.
- All areas of transplant activity are supported including pre-transplant analysis and preparation as well as recipient monitoring.
- Anonymous donor support is provided, with significant tissue typing functionality and cross matching information available.
- A complete record supports charting of the surgical processes, including the preparation and preservation of the kidney, and other organs which may have been harvested.
- cyberREN® further assists in the patient specific and general management of transplant therapy by providing the electronic charting of transplant operation details, organ rejection incidents and their related treatment, and biopsy results.
- Transplant follow-up management is supported by a comprehensive spreadsheet function calculating mortality rates and other long-term indices, kidney function and associated dosages of transplant medications. ODBC based access allows third party statistical tools to query the cyberREN® database in any user definable manner.
- cyberREN® Panels, a specific, user definable form of flow sheet, allows the rapid and meaningful review of laboratory data along with all related treatment parameters, in both a tabular as well as a graphical format.
- A complete set of transplant related, user modifiable, standard data catalogues complement cyberREN®'s transplant functionality, fostering consistent charting and allowing a statistical analysis of most chart content.

cyberREN® provides extensive transplant information for each patient:

- Immunology
- Donor List
- Serology
- Rejection History
- Transplant History
- Biopsy Details
- Tissue Typing
- Transplant Operation Details
- Cross matching
- Donor Source Records
- Transplant Workup
- Donor Data
Five methods are available to retrieve, analyse and report information:

- Standard cyberREN® reports
- User defined reports
- Spreadsheets
- Panels
- Line graphs