Therapy Data Management System
Data Acquisition, Data Management and Quality Assurance
Protect your Patient

Cardioprotective Haemodialysis

The reduction of risk factors for cardiovascular diseases (CVD) is core to the development of dialysis systems and products at Fresenius Medical Care. Outstanding cardioprotection must be reflected in all levels of product development and application.

Wide-ranging cardioprotection

There have been tremendous improvements in the quality and efficacy of haemodialysis (HD) therapy in recent years. Despite this, cardiovascular diseases (CVD) remain the leading cause of death for patients with end-stage renal disease (ESRD).

Services

Over 30 years experience in dialysis at your service.

- Project Planning and Consulting
- Training and Education
- Technical Services
- Water Quality Service (WQS)
- Medical Information Services

Products

State-of-the-art technologies enable advanced cardioprotective therapies.

- CorDix product line:
  - 5008 CorDix and 5008S CorDix
  - FX CorDix haemodiafilter
  - BCM-Body Composition Monitor
- Classix product line:
  - 4008S classix
  - FX classix dialysers
- Therapy Data Management System (TDMS)
- Online Purification Cascade (OPC)
Moreover, both overall and cardiovascular mortality are markedly greater in ESRD patients than in the general population. This is why we put Cardioprotective Haemodialysis on the SPOT. A comprehensive approach that includes services, products and therapies is needed to achieve the best therapeutic performance – meaning improved clinical outcomes and better quality of life, enhanced control of therapy costs, and simpler, safer handling.

Outcomes
Achieving better outcomes with cardioprotective therapies.
- Reduced mortality risk
- Fewer cardiovascular complications
- Optimised use of resources

Therapies
Cardioprotective therapies designed by the world market leader in haemodialysis.
- High-Flux dialysis
- HighVolumeHDF®
- Advanced Fluid Management
The dialysis ward of today

Increasingly more time is now being spent on the documentation of treatments, along with the usual day-to-day medical and nursing activities. It is likely that the extent of documentation will increase even further in future. This is indicated by the growing number of patients and the increasing requirement for documentation in dialysis wards.

Information and data management have to meet growing demands

These developments have pushed targeted data management more into the foreground. Managing this data manually would mean higher administrative costs and would consume valuable resources.

A highly automated data management system offers:

- Optimisation of resources
- Increased accuracy of compiled data
- Shared use of data
The Therapy Data Management System – An integrated solution

The Therapy Data Management System (TDMS) is seamlessly integrated into existing working processes and supports the user in the entire dialysis process, such as dialysis management, pre-setting of dialysis devices, and treatment documentation.

As a total integrated solution, the Therapy Data Management System is a seamless link between the world of dialysis and information technology and provides the right tool for every professional in a dialysis centre.

The answer to growing demands: the right services to empower your working tools.

In addition to the necessary working tools, the planning, installation, and maintenance of such a system on a professional and individual level are important. The innovative solutions that have been adapted to the interdisciplinary professional groups.

Fresenius Medical Care is one of the few companies able to provide the full range of products and services required for an integrated IT solution that supports haemodialysis.

Our modular approach

In the Clinical Data Management Field
- Creation and processing of useful instructions
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- Creation and processing of useful instructions

In the area of Corporate Data Management
- Communication with higher level hospital information systems (HIS) in hospitals
- Supporting core business processes in hospitals, e.g., billing processes and treatment documentation in electronic health records
- Creation and processing of useful instructions
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In the field of Monitoring
- Providing the right tool for every professional in a dialysis centre.
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Therapy Data Management System
An integrated solution

The Therapy Data Management System (TDMS) is seamlessly integrated in existing working processes and supports the user in the entire daily tasks, such as chart management, printing of therapy plans, and direct data input as well.

As a stand-alone solution, the Therapy Data Management System is a seamless link between the world of dialysis and information technology and provides the best tool for every professional in a dialysis centre.

The Therapy Data Management System is the answer to growing demands for professionals along the processes in a dialysis centre.

In addition to the necessary working tools, the planning, installation, and maintenance of such a system on a professional and individual basis are important.

Providing the right tool for every professional in a dialysis centre.

As a total integrated solution, the Therapy Data Management System provides the right tool for every professional in a dialysis centre.

In the Clinical Data Management field

- Creation and maintenance of all readiness instructions
- Maintenance of standardized data
- Production of reports and writing doctors’ letters
- Requirements management and intoxication
- Multi-centre management capability
- Advanced data analysis and reporting functionally

In the Corporate Data Management field

- Treatment and or medication scheduling at patient level
- Treatment and or medication scheduling at patient level

In the area of Corporate Data Management

- Communication with higher level hospital information systems
- Communication with higher level hospital information systems
- Support for new hospital processes
- Support for new hospital processes
- Support for new hospital processes

Documenting the treatment process

- Documenting any administration of medication
- Documenting any administration of medication
- Documenting any administration of medication
- Documenting any administration of medication

Monitoring

- Recording the weight of a patient before and after dialysis
- Recording the weight of a patient before and after dialysis
- Recording the weight of a patient before and after dialysis
- Recording the weight of a patient before and after dialysis

Preparation and or setting of the dialysis devices

- Preparing the treatment process
- Preparing the treatment process
- Preparing the treatment process
- Preparing the treatment process

The Therapy Monitor supports the user in the documentation of the treatment process, administration, events, and modifications in the treatment process.

The Therapy Monitor helps clinical professionals to optimise the utilisation of resources. Less time is spent on the preparation of the treatment.

Therapy Support Suite

The Therapy Support Suite (THSS) is designed to optimise the utilisation of resources. Less time is spent on the preparation of the treatment.

The innovative data Xchange panel is designed to simplify data input, such as check lists, medication, on the 5008/5008S therapy system and has direct access to the management of the patient.

Automatic treatment documentation

The Therapy Monitor supports the user in the documentation of the treatment process, administration, events, and modifications in the treatment process.
**Clinical Data Management Field**
- Creation and processing of medical instructions
- Maintenance of administration data
- Production of reports and writing doctors' letters
- Support in electronic health records
- Multimodal management capability
- Advanced data analysis and reporting functionally

**Corporate Data Management Field**
- Creation and proessing of instructions for dialysis treatment
- Creation and processing of medication instructions
- Maintenance and interpretation of laboratory data
- Production of reports and writing doctors' letters
- Support in electronic health records
- Multimodal management capability
- Advanced data analysis and reporting functionally

**Therapy Support Suite**
- Treatment and medication scheduling at patient level
- Communication with higher level hospital information systems (HL7) is optional
- Support in electronic health records
- Multimodal management capability
- Advanced data analysis and reporting functionally

**Therapy Data Management System (TDMS)**
An integrated solution
- The Therapy Data Management System (TDMS) is seamlessly integrated in existing working processes and thus supports the user in his or her daily tasks, coordination the installation and the ongoing support of the integrated system.
- A one-stop shop is created. This applies to the initial planning and future training of users of the applications. And it also supports professional groups by providing the right tools for every professional in a dialysis centre.

**Therapy Monitor**
The Therapy Monitor helps clinical professionals in their day-to-day work in their clinical routine. It stands for effective and safe support of your personnel and thus reduces the time spent on the preparation of the treatment.

**Corporate Data Management**
Supporting core business processes in hospitals, communication with higher-level hospital information systems (HIS) in hospitals, treatment and medication scheduling at patient level.

**Monitoring**
Documents any changes in the treatment process, predetermined working procedures, results, and modifications in the treatment process.

**Therapy Support Suite**
Documents any additional laboratory tests, medication, events, and modifications in the treatment process.

**Therapy Data Management System**
As a total integrated solution, the Therapy Data Management System is a seamless link between the world of dialysis and information technology and provides the right tool for every professional in a dialysis centre.

**Therapy Support Suite**
The Therapy Monitor supports the user in the patient-level supervision via data exchange panel (dXp).

**Therapy Data Management System**
The Therapy Data Management System – TDMS – is seamlessly integrated in existing working processes and thus supports the user in his or her daily tasks, coordination the installation and the ongoing support of the integrated system.

**Therapy Monitor**
The innovative data exchange panel (dXp) is designed for the direct data input, such as new lectures, exclusions on the 5008/5008S therapy systems and thus directly at the bedside of the patient.

**Therapy Support Suite**
Bed-side monitoring with dXp.

**Therapy Data Management System**
A total integrated solution.

**Therapy Monitor**
The Monitoring Software.

**Therapy Support Suite**
Therapy Support Suite.

**Therapy Data Management System**
An integrated solution.

**Therapy Monitor**
The Monitoring Software.

**Therapy Support Suite**
Therapy Support Suite.

**Therapy Data Management System**
As a total integrated solution.
The Therapy Monitor provides online documentation of all data to be recorded before, during and after the dialysis. The Therapy Monitor is easily adapted to all working processes on the dialysis ward so that a glance at the screen is enough to grasp all the important information. Clinical staff will be supported in their daily work by reduction of time consuming activities such as pre-setting dialysis devices and record-taking.

The dXp innovation redefines bedside monitoring in dialysis and enables the clinical staff to do the treatment documentation on the screen of the 5008 CorDiax and 5008S CorDiax. Gone is the former need to additionally enter data manually on a PC. This increases the security of data handling and the efficiency of the documentation. Potential errors when transcribing and transcribing data are also minimised.

The Therapy Support Suite (TSS) is the central clinical management system within TDMS. As such it supports the user in creating and managing patient prescriptions, medication plans, long-term documentation of treatment data, and patient-related laboratory data. Furthermore, it provides enhanced reporting capabilities and above the pharmaceutical management of an association of dialysis centres. The immediate, simple and secure access to patient data in combination with the optimised data analysis and visualisation of results empowers the clinical staff to ensure a consistent quality of care for the patients.

The communication Data Link (cDL) allows the seamless integration of TDMS as a sub-system in a higher-level hospital information system. The direct data exchange allows a consistent use of essential patient data in all hospital wards. This takes away workload from clinical staff and increases the quality and accuracy of patient data processed in the Hospital Information System. It saves time and increases the efficiency and effectiveness of the core hospital processes. Furthermore, it provides the hospital in a position to demonstrate the high quality of the hospital standards.
The Therapy Monitor provides online documentation of all data concerning patients during their dialysis treatments in the dialysis center. The Therapy Monitor is easy to use and can be adapted to the working processes of the dialysis center.

The Bed-side Monitoring Software dXp
The dXp innovation redefines bedside monitoring in dialysis and enables the clinical staff to do the treatment documentation on the screen of the CorDiax 5008 and 5008S CorDiax.

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The Clinical Data Management Software Therapy Support Suite – TSS
Therapy Support Suite (TSS) is the central clinical management system within TDMS. It is built to support the user in carrying out, creating and managing patient prescriptions, treatment plans, long-term documentation of treatment data, and patient medical history data. Furthermore, it provides enhanced reporting capabilities and allows for the professional management of all associated dialysis centers.

The immediate, simple and secure access to patient data in combination with the optimised data analysis and visualisation of results empowers the clinical staff to ensure a consistent quality of care for the patients.

Interaction with existing hospital information systems
Communication Data Link – cDL
The communication data link (cDL) allows the seamless integration of TDMS as a sub-system in a higher-level hospital information system. The direct data exchange above is a consistent use of essential patient data of all hospital wards.

This saves many essential time-related staff resources for quality and accuracy of patient data processing in the hospital information system. It enables compliance for all participants in the processes and efficiency of the own hospital processes. Furthermore, it justifies the hospital in a position to demonstrate the high quality of the hospital standards.
The Therapy Monitor provides a clear documentation of all data (also recorded before, during and after the dialysis). The Therapy Monitor is easily adapted to all working procedures on the dialysis ward so that a glance at the screen is enough to grasp all the important information.

Clinical staff will be supported in their day-to-day routine by reduction of time consuming activities such as presetting dialysis devices and record-keeping.

The dXp innovation redefines bed-side monitoring in dialysis and enables the clinical staff to do the treatment documentation on the screen of the 5008 CorDiax and 5008S CorDiax. Gone is the former need to additionally enter data manually on a PC. This increases the security of data handling and the efficiency of the documentation. Potential errors when transcribing and documenting data are also minimised.

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The immediate, simple and secure access to patient data in combination with the optimised data analysis and visualisation of results empowers the clinical staff to ensure a consistent quality of care for the patients.

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TDMS – Therapy Data Management System

The Therapy Monitor provides online documentation of all data to be recorded before, during and after the dialysis. The Therapy Monitor is easily adapted to all working processes on the dialysis ward so that a glance at the screen is enough for the most important decisions.

Clinical staff will be supported in their daily work by reduction of time consuming activities such as patient documentation and result-taking.

The Therapy Monitor provides online documentation of all data to be recorded before, during and after the dialysis. The Therapy Monitor is easily adapted to all working processes on the dialysis ward so that a glance at the screen is enough for the most important decisions.

Clinical staff will be supported in their daily work by reduction of time consuming activities such as patient documentation and result-taking.

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The Clinical Data Management Software Therapy Support Suite – TSS

The Therapy Support Suite (TSS) is the central clinical management system within TDMS. As it is built to support the user in carrying out, creating and managing patient prescriptions, installation plans, therapy documentation of treatment data, and patient related laboratory data. Furthermore, it provides enhanced reporting capabilities and allows the pre-planning of all aspects of dialysis on time.

The immediate, simple and secure access to patient data in combination with the optimized data analysis and visualization of results empowers the clinical staff to ensure a consistent quality of care for the patients.

Interaction with existing hospital information systems

The Communication Data Link (cDL) allows the seamless integration of TDMS as a sub-system in a higher-level hospital information system. The direct data exchange allows a consistent use of essential patient data in all hospital wards. This streamlines workflows for clinical staff and increases the quality and accuracy of patient data processing in the Hospital Information System. It streamlines clinical and enhances the effectiveness and efficiency of the core hospital processes. Furthermore, it puts the hospital in a position to demonstrate the high quality of the hospital standards.

Therapy Support Suite – Individual presentation of the documented treatment data

The Therapy Monitor provides online documentation of all data to be recorded before, during and after the dialysis. The Therapy Monitor is easily adapted to all working processes on the dialysis ward so that a glance at the screen is enough for the most important decisions.

Clinical staff will be supported in their daily work by reduction of time consuming activities such as patient documentation and result-taking.

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The Therapy Monitor helps clinical professionals to optimise the utilisation of resources. Less time is required for the documentation of patient data before, during and after dialysis.

Initial pre-setting of the dialysis device

The Therapy Monitor supports the user in the documentation of the treatment process, administered medication, events, and modifications in the treatment process.

Automatic treatment documentation

The Therapy Monitor is seamlessly integrated in existing working processes in dialysis centres. It stands for effective and safe support of your clinical demands in dialysis centres and hospitals.

In the area of Corporate Data Management

Supporting core business processes in hospitals, communication with higher-level hospital information systems (HIS) in hospitals, and external blood pressure monitors. A one-stop shop is created. This applies to the initial recording of the patient’s weight before and after dialysis, including the weight of the patient in the dialysis device.

In the Clinical Data Management field

Documenting predetermined working procedures during the dialysis process.

In addition to the necessary working tools, the planning, installation and maintenance of such a system on a professional and individual basis are important for the effective and safe support of your clinical demands in dialysis centres and hospitals.

In our innovative monitoring system (dXp) is designed for direct data input, such as check lists, medication, results of laboratory tests and thus directly at the bedside of the patient.

The Therapy Monitor is seamlessly integrated in existing working processes in dialysis centres. It stands for effective and safe support of your clinical demands in dialysis centres and hospitals.

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Therapy Data Management System

An integrated solution

As a total integrated solution, the Therapy Data Management System is a seamless link between the world of dialysis and information technology and provides the right tool for every professional in a dialysis centre.

The answer to growing demands: the right working tools for professionals

The Therapy Support Suite (CDS) is designed for the necessary working tasks before, during and after dialysis. The CDS is designed as a planable professional group in an integrated system.

The answer to growing demands: the right services to empower your working tools

In addition to the necessary working tools, the planning, installation and maintenance of such a system on a professional and individual basis are important for the effective and safe support of your clinical demands in dialysis centres and hospitals.

In the area of Corporate Data Management

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In the Clinical Data Management field

Creation and processing of administration data

The Therapy Data Management System – TDMS – is seamlessly integrated in existing working processes in dialysis centres. It stands for effective and safe support of your clinical demands in dialysis centres and hospitals.

In the area of Corporate Data Management

Supporting core business processes in hospitals, communication with higher-level hospital information systems (HIS) in hospitals, and external blood pressure monitors. A one-stop shop is created. This applies to the initial recording of the patient’s weight before and after dialysis, including the weight of the patient in the dialysis device.

In the Clinical Data Management field

Creation and processing of administration data

The Therapy Data Management System – TDMS – is seamlessly integrated in existing working processes in dialysis centres. It stands for effective and safe support of your clinical demands in dialysis centres and hospitals.
The Therapy Support Suite is the heart of the Therapy Data Management System and ensures seamless communication from dialysis devices up to a Hospital Information System. The modular approach allows the adaptation to the individual needs of dialysis wards. It provides

- the data required for the patient-specific pre-setting of the dialysis device and documents the long-term treatment process
- shared management of dialysis treatment data, laboratory data, medical findings and medication processes
- communication via cDL with higher-level Hospital Information Systems (HIS) designed for the exchange of patient data

Besides pure data documentation, TSS allows values to be evaluated in appropriate combinations. This enables, for instance, the support of internal quality assurance.

The Therapy Support Suite allows the presentation of the collected data according to individual demands and processes, and in highly flexible reports and as comprehensive views.

Furthermore, TSS has the capability to manage clinical processes, for example, it allows an easy and quick overview of scheduled treatments.
Our service portfolio
Individual project management, professional installation, extensive employee training and comprehensive problem-handling

Planning and projecting

Once a decision is made to deploy TDMS, our project engineers carry out the planning and project management for the system according to the agreed requirements. We thereby take into account individual requirements relating to the implementation period and when the system should go live. Dedicated contact partners are available during the entire project phase.

Installation of the necessary hardware and software

After the completion of the project phase, and once local suppliers have carried out the necessary cabling according to individual specifications, the hardware and software are installed and any external medical equipment is connected to the system.

Training

As soon as TDMS has gone live, our specially trained software consultants instruct all future users on how to work with TDMS. Further training at a later date is of course available at any time.

Technical service

We provide a comprehensive range of technical services, including a hotline for remote support or on-site service when required.
Therapy Data Management System

Technical aspects

Due to increased demands for technological aspects, the modular structure of the system in combination with used state-of-the-art technologies and architectures, also enables a flexible adaptation and integration of the system in your infrastructure within a dialysis centre.

In addition, this architecture provides numerous options and different ways of combining with other systems, so that there is room for future development and expansion of your dialysis centre.

It will provide the professionals in your team responsible for technical issues with the tools to perform efficient and effective work either for administration, updating or the needed documentation to implement the system in your quality management system.