The Nexadia® System

Creating dimensions in process and quality management

Haemodialysis
Nexadia® – a good choice

In dialysis, as in other disciplines, both medical and nursing staff are faced with the challenge of ensuring reliable and efficient care within the scope of legal provisions and economical requirements.

Dialysis centres are only able to achieve a high quality of medical treatments and efficiency of processes if daily data is retrieved, processed and filed effectively.

Our innovative and intelligent data management system Nexadia® helps you to simplify these processes considerably facilitates preparation of the documentation required for quality management. Nexadia® gives you efficient support in your everyday practice routine.

**Optimised Processes in Everyday Dialysis Routine**

**Increased cost efficiency**

**Automation of complex tasks**

**Less administrative activities and more time for the patient**

**Consistent documentation for optimum quality assurance**

**Easy operation meeting practical requirements**

**Automated saving and filing of relevant data**
Nexadia®: Establishing Connections

Systematic networking forms the basis for success

Close to the patient
A prospective study was conducted to examine the effect of Nexadia® Monitor on the workflows of a dialysis procedure.

The time nursing staff required for certain defined processes in the treatment of a total of 10 patients was compared both prior and subsequent to implementation of Nexadia® Monitor.

The study showed that the data network of the dialysis centre considerably reduced the time needed for each dialysis procedure – time which the nursing staff can instead devote to the patient.

In a total of 7 processes, Nexadia® Monitor helped to reduce the time the nursing staff needed per patient and per treatment by more than 21 minutes (Fig. 3).

If Nexadia® Monitor is used in combination with Nexadia® Expert, even more time can be saved which is then available to medical staff. As personnel become increasingly familiar with the Nexadia® system, a positive learning curve effect may also be expected. As a result, you could ultimately expect staff to save even more time when performing daily routine tasks.

Intelligent technology for individual requirements
The basic requirements for a data management system are flexibility and ease of operation. The Nexadia® system adapts to meet your work requirements – not the other way round.

The software interfaces of the system allow numerous combinations and connections, for example to hospital information systems. In addition to our Dialog+ and Dialog Advanced dialysis machines, peripheral equipment, such as patient scales, can also be incorporated in the network via standardised hardware interfaces.

Please do not hesitate to contact your local representative if you have any further enquiries.

![Nexadia®: Establishing Connections](image)

**Figure 3: Study results for nursing staff**

<table>
<thead>
<tr>
<th>Process</th>
<th>Percent Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. integrated automatic blood pressure measurement</td>
<td>100%</td>
</tr>
<tr>
<td>2. predialytic weighing</td>
<td>23%</td>
</tr>
<tr>
<td>3. setting of parameters in dialysis machines</td>
<td>55%</td>
</tr>
<tr>
<td>4. entering of data in treatment records</td>
<td>87%</td>
</tr>
<tr>
<td>5. measuring of blood pressure during treatment</td>
<td>100%</td>
</tr>
<tr>
<td>6. postdialytic weighing</td>
<td>17%</td>
</tr>
<tr>
<td>7. checking of treatment records</td>
<td>43%</td>
</tr>
</tbody>
</table>

Data from other medical information systems can also be imported and managed, e.g. patient master data, laboratory results, findings and diagnoses from external physicians.

Nexadia® Expert is perfectly co-ordinated with the Nexadia® monitoring software and automatically initiates bi-directional data transfer to and from Nexadia® Monitor and any other equipment connected to the system.

Together, Nexadia® Monitor and Nexadia® Expert provide an optimum system: highly efficient and easy to use (Fig. 1).

**Figure 1: Schematic overview of Nexadia®**

The system Nexadia®: Monitoring software and database
Nexadia® Monitor is a clearly structured and user-friendly software which provides a transparent view and control of a wide range of processes in dialysis treatment.

The data generated in connected dialysis machines, analysers (e.g. blood gas analysis) and patient scales is automatically transferred and saved to Nexadia® Monitors which enables clear visualisation and convenient editing of the data. Thanks to the bi-directional data transfer between Nexadia® Monitor and the connected dialysis machines, consistent and up-to-the-minute data records can be called up at any time, even during treatment.

Nexadia® Expert is a powerful and user-friendly database for dialysis centre therapy management.

Operation of Nexadia® Expert is intuitive. Functions include the editing and archiving of all treatment- and patient-related data and preparation of the documentation required for quality assurance.

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Optimized workflows
During dialysis therapy, Nexadia® Monitor helps you simplify and speed up procedures, as well as improve their reliability and safety.

At the start of the treatment, patients log on to identify their saved therapy profiles. Logon is quick and easy thanks to an individual patient card which is identified by an external card reader on the patient scales.

In the further course of the treatment, patients insert their card in the dialysis machine for logon. This initiates automatic download of the individual treatment parameters. After confirmation of these parameters, dialysis can be started immediately – without any time-consuming manual inputs or records having to be made by the nursing staff.

At the end of the treatment, the patient is disconnected and weighed once more. As previously, the patient is identified over his patient chip card and his postdialytic weight is transferred automatically to Nexadia® Monitor.

Further relevant information can also be added to the session data record created by Nexadia® Monitor. Then the values are checked and the current session is completed. On completion, a defined data record is transferred to the higher-level Nexadia® Expert system.

All data of the current therapy (and all previous therapies) can be viewed and accessed at any time in the Nexadia® Expert system.

Automatic saves time
Nexadia® Monitor automatically retrieves, consolidates and saves all data of the machines and devices connected to the network. There is no further need for time-consuming manual recording.

The easy-to-use graphical user interface can be freely configured according to individual requirements. It visualizes the generated data with self-explanatory icons, just click on one of these icons to open the related functionality in a separate dialog where it can be viewed and edited. Since communication is bidirectional, you can directly execute and confirm any instructions that are displayed as text messages on the screen of the dialysis machine.

The wide range of automation processes provided by Nexadia® Monitor makes dialysis therapy considerably less labour-intensive, thus allowing nursing staff to devote more time to individual patient care.

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Interactive Software: Nexadia® Monitor

Monitoring
The treatment progress is displayed continuously and possible risks are signaled immediately.
Checklists provide a useful and convenient tool.
• Monitoring of treatment

Data retrieval
Nexadia® Monitor can be connected to a network comprising many machines and devices, so that the data of dialysis machines as well as of scales and external blood-pressure monitors can be recorded.

• Complete retrieval of treatment parameters

Nexadia® Expert also lets you store, modify and analyze a wide range of additional data.
As well as letting you record diagnoses and laboratory data, update medical files and supports a wide range of evaluation options, a key feature of Nexadia® Expert is the module for dialysis planning and documentation.

This module lets you schedule treatments and create individual patient prescriptions (treatments and machine parameters) and modify them when necessary.

Quality management
Nexadia® Expert particularly supports the quality management of a centre. All data stored in the system can be compiled and exported as desired (Excel, PDF, ...), e.g. in the form of reports.

In addition, the HL7 interface can be used to exchange data with other connected systems, such as the hospital information system (HIS) where the exported data can be used, e.g. for accounting purposes.
The patient visits the dialysis centre to obtain regular treatment. The patient is weighed or steps on the scale and logs in, identifying himself with his Nexadia® patient chip card. The predialytic weight is transferred automatically to the Nexadia® Monitor system where it will be used for further calculations.

Preparation of dialysis station. The patient is connected to the dialysis machine.

The nursing staff insert the patient chip card in the dialysis machine, which calls for the download parameters (preset machine values).

The nursing staff display and check the values transferred to the dialysis machine, and explicitly confirm and release the values by simply pressing a button.

Treatment can now be started with these preset values.

While therapy is in progress, treatment and device data are continuously recorded.

Alarms and warnings output by the dialysis machine are immediately transmitted to Nexadia® Monitor where they are displayed.

During therapy, text messages can be sent from Nexadia® Monitor to dialysis machine and, in the other direction,

reports for therapy documentation can be sent from the dialysis machine to Nexadia® Monitor.

The results of the automatic blood pressure measurements are also transmitted to Nexadia® Monitor where they are stored.

All recorded data are stored in Nexadia® Monitor and are available for export to Nexadia® Expert.
The information system for dialysis
Data must also be retrieved, edited or evaluated in the time between treatments when there is no dialysis. Such data may include patient and treatment parameters, as well as information about the creation of accounts, stockkeeping, and quality assurance with attendant documentation.

Nexadia® Expert is a database for a variety of applications, which supports fast and clear control of therapy management in your dialysis centre (Fig. 2).

Digital patient file
Patient and treatment data can be entered in Nexadia® Expert after completion of the treatment. If Nexadia® Monitor is connected, these data are transferred automatically and quickly via a defined interface where they are constantly available, complete and up-to-date.

Moreover, Nexadia® Expert allows you to collect all patient-related data in a digital patient file so that you can save both paper and time. You can store diagnoses and findings as well as medications, and parameters from laboratories, external hospitals or medical specialists.

This allows accurate scheduling of future dialysis treatments, including exact dates, durations, UF rates, as well as prescriptions and medications.

Considerably fewer administration tasks
The administration tasks associated with everyday dialysis routine are easy to perform with Nexadia® Expert. Integrated reporting and exporting functions support quality assurance and facilitates control and documentation tasks.

Flexible Database: Nexadia® Expert

Nexadia® Expert can support, document and manage the entire haemodialysis procedure – from the first weighing results to the transfer of data to connected systems.
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Quality assurance with Nexadia® Expert
Quality assurance requires proof of the consistent high quality of dialysis treatments. Nexadia® Expert provides numerous functions to implement quality assurance measures.

The majority of data relevant to quality assurance are automatically retrieved during the treatment, thus considerably reducing manual documentation work.

Furthermore, Nexadia® Expert also supports the storage of large volumes of additional data, which can be used for quality assurance purposes.

1 Health Level 7 - international standard for exchanging data among health-oriented computer systems.
2 Hospital information system – central EDP system of a hospital for editing administrative and medical data.
3 If the Nexadia® Monitor system is connected, the data collected up to the point when the treatment is completed is automatically transferred directly to Nexadia® Expert via a defined interface.
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References:
2 Per patient per treatment.
3 Steps numbered chronologically on the basis of a dialysis procedure.

Fig. 1: Schematic overview of Nexadia®

Fig. 2: Study results for nursing staff

Time saved with ...

1. integrated automatic blood pressure measurement 100%
2. predialytic weighing 23%
3. setting of parameters in dialysis machines 55%
4. entering of data in treatment records 87%
5. measuring of blood pressure during treatment 100%
6. postdialytic weighing 17%
7. checking of treatment records 43%
The patient visits the dialysis centre to obtain regular treatment. The patient is weighed or steps on the scale and logs in, identifying himself with his Nexadia® patient chip card.

The predialytic weight is transferred automatically to the Nexadia® Monitor system where it will be used for further calculations.

Preparation of dialysis station. The patient is connected to the dialysis machine.

The nursing staff insert the patient chip card in the dialysis machine, which calls for the download parameters (preset machine values).

The nursing staff display and check the values transferred to the dialysis machine, and explicitly confirm and release the values by simply pressing a button.

Treatment can now be started with these preset values.

While therapy is in progress, treatment and device data are continuously recorded.

Alarms and warnings output by the dialysis machine are immediately transmitted to Nexadia® Monitor where they are displayed.

During therapy, text messages can be sent from Nexadia® Monitor to dialysis machine and, in the other direction,

reports for therapy documentation can be sent from the dialysis machine to Nexadia® Monitor.

The results of the automatic blood pressure measurements are also transmitted to Nexadia® Monitor where they are stored.

All recorded data are stored in Nexadia® Monitor and are available for export to Nexadia® Expert.

Communication System

Therapy sequence using the Data Management System Nexadia®

Documentation

All treatment data and any event occurring during the treatment, vital parameters, etc. are stored. Any data required for quality assurance, accounting and stockkeeping are documented.

- Continuous storage of all data
- Reduced administrative work

Download

Individual patient parameters from the monitoring software are directly downloaded to the dialysis machine. No additional settings are necessary.

- Fast and easy transfer of settings
- No input errors

Warning functions

Self-explanatory coloured icons indicate risks, alarms, warnings, instructions that have not been followed and vital parameters that have reached values outside of limits.

Just click the mouse to open detailed information.

- Early detection of risks

Messaging

With Nexadia® Monitor, you can send text messages between the workstations and dialysis machines.

Instant transmission and implementation of physician’s instructions.

- Time-saving
- Fast and reliable intervention

Download
Preparation of dialysis station: The patient is connected to the dialysis machine. The nursing staff insert the patient’s chip card in the dialysis machine, which calls for the download of parameters (preset machine values). The nursing staff display and check the values transferred to the dialysis machine, and explicitly confirm and release the values by simply pressing a button. Treatment can now be started with these preset values.

While therapy is in progress, treatment and device data are continuously recorded. Alarms and warnings output by the dialysis machine are immediately transmitted to Nexadia® Monitor where they are displayed. During therapy, text messages can be sent from Nexadia® Monitor to dialysis machine and vice versa.

Reports for therapy documentation can be sent from the dialysis machine to Nexadia® Monitor. The results of the automatic blood pressure measurements are also transmitted to Nexadia® Monitor where they are stored. All recorded data are stored in Nexadia® Monitor and are available for export to Nexadia® Expert.

Communication System
Interactive Software: Nexadia® Monitor

Optimized workflows

During dialysis therapy, Nexadia® Monitor helps you simplify and speed up procedures, as well as improve their reliability and safety.

At the start of the treatment, patients log on to identify their saved therapy profile. Logon is quick and easy thanks to an individual patient card which is identified by an external card reader on the patient scales.

The patient's current weight is directly transferred to the monitoring software via the network. Taking the patient information filed there as a basis, Nexadia® Monitor automatically determines the necessary UF rate which can also be updated manually if necessary.

In the further course of the treatment, patients insert their card in the dialysis machine for logon. This initiates automatic download of the individual treatment parameters.

After confirmation of these parameters, dialysis can be started immediately – without any time-consuming manual inputs or records having to be made by the nursing staff.

Monitoring of treatment progress

The treatment progress is displayed continuously and possible risks are signaled immediately.

Checklists provide a useful and convenient tool.

Further relevant information can also be added to the session data record created by Nexadia® Monitor. Then the values are checked and the current session is completed.

On completion, a defined data record is transferred to the higher-level Nexadia® Expert system.

All data of the current therapy (and all previous therapies) can be be viewed and accessed at any time in the Nexadia® Expert system.

Automation saves time

Nexadia® Monitor automatically retrieves, consolidates and saves all data of the machines and devices connected to the network. There is no need for time-consuming manual recording.

The easy-to-use graphical user interface can be freely configured according to individual requirements. It visualizes the generated data with self-explanatory icons. Just click on one of these icons to open the related functionality in a separate dialog where it can be viewed and edited.

Since communication is bidirectional, you can directly execute and confirm any instructions that are displayed as text messages on the screen of the dialysis machine.

The wide range of automation processes provided by Nexadia® Monitor makes dialysis therapy considerably less labour-intensive, thus allowing nursing staff to devote more time to individual patient care.

Data retrieval

Nexadia® Monitor can be connected to a network comprising many machines and devices, so that the data of dialysis machines as well as of scales and external blood pressure monitors can be recorded.

• Complete retrieval of treatment parameters

Data retrieval

Nexadia® Expert also lets you store, modify and analyze a wide range of additional data.

As well as letting you record diagnoses and laboratory data, update medical files and supports a wide range of evaluation options, a key feature of Nexadia® Expert is the module for dialysis planning and documentation.

This module lets you schedule treatments and create individual patient prescriptions (treatments and machine parameters) and modify them where necessary.

Quality management

Nexadia® Expert particularly supports the quality management of a centre. All data stored in the system can be compiled and reported as desired (Excel, PDF,...) e.g. in the form of reports.

In addition, the HL7 interface can be used to exchange data with other connected systems, such as the hospital information system (HIS) where the exported data can be used, e.g. for accounting purposes.

At the end of the treatment, the patient is disconnected and weighed once more.

As previously, the patient is identified over his patient chip card and his postdialytic weight is transferred automatically to Nexadia® Monitor.

If necessary, the nursing staff and the patient decide on further agreements before the patient leaves the centre.

Further relevant information can also be added to the session data record created by Nexadia® Monitor. Then the values are checked and the current session is completed.

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The easy-to-use graphical user interface can be freely configured according to individual requirements. It visualizes the generated data with self-explanatory icons, just click on one of these icons to open the related functionality in a separate dialog where it can be viewed and edited. Since communication is bidirectional, you can directly execute and confirm any instructions that are displayed as text messages on the screen of the dialysis machine.

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Interactive Software: Nexadia® Monitor
Systematic networking forms the basis for success

Close to the patient

A prospective study was conducted to examine the effect of Nexadia® Monitor on the workflows of a dialysis procedure.

The time nursing staff required for certain defined processes in the treatment of a total of 10 patients was compared both prior and subsequent to implementation of Nexadia® Monitor.

The study showed that the data network of the dialysis centre considerably reduced the time needed for each dialysis procedure – time which the nursing staff can instead devote to the patient.

In a total of 7 processes, Nexadia® Monitor helped to reduce the time the nursing staff needed per patient and per treatment by more than 21 minutes (Fig. 3).

If Nexadia® Monitor is used in conjunction with Nexadia® Expert, even more time can be saved which is then available to medical staff. As personnel become increasingly familiar with the Nexadia® system, a positive learning curve effect may also be expected. As a result, you could ultimately expect staff to save even more time when performing daily routine tasks.

Intelligent technology for individual requirements

The basic requirements for a data management system are flexibility and ease of operation. The Nexadia® system adapts to meet your work requirements – not the other way round.

The software interfaces of the system allow numerous combinations and connections, for example to hospital information systems. In addition to our Dialog+ and Dialog Advanced dialysis machines, peripheral equipment, such as patient scales, can also be incorporated in the network via standardised hardware interfaces.

Please do not hesitate to contact your local representative if you have any further enquiries.

![Diagram of Nexadia® system](image-url)

**Fig. 1**: Schematic overview of Nexadia®

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Data from other medical information systems can also be imported and managed, e.g. patient master data, laboratory results, findings and diagnoses from external physicians.

Nexadia® Expert is perfectly co-ordinated with the Nexadia® monitoring software and automatically initiates bidirectional data transfer to and from Nexadia® Monitor and any other equipment connected to the system.

Together, Nexadia® Monitor and Nexadia® Expert provide an optimum system: highly efficient and easy to use (Fig. 1).

The system Nexadia®: Monitoring software and database

Nexadia® Monitor is a clearly structured and user-friendly software which provides a transparent view and control of a wide range of processes in dialysis treatment.

The data generated in connected dialysis machines, analysers (e.g. blood gas analysis) and patient scales is automatically transferred and saved to Nexadia® Monitor, which enables clear visualisation and convenient editing of the data. Thanks to the bidirectional data transfer between Nexadia® Monitor and the connected dialysis machines, consistent and up-to-the-minute data records can be called up at any time, even during treatment.

Nexadia® Expert is a powerful and user-friendly database for dialysis centre therapy management.

Operation of Nexadia® Expert is intuitive. Functions include the editing and archiving of all treatment- and patient-related data and preparation of the documentation required for quality assurance.

Data from other medical information systems can also be imported and managed, e.g. patient master data, laboratory results, findings and diagnoses from external physicians.

Nexadia® Expert is perfectly co-ordinated with the Nexadia® monitoring software and automatically initiates bidirectional data transfer to and from Nexadia® Monitor and any other equipment connected to the system.

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1. integrated automatic blood pressure measurement
2. predialytic weighing
3. setting of parameters in dialysis machines
4. entering of data in treatment records
5. measuring of blood pressure during treatment
6. postdialytic weighing
7. checking of treatment records

<table>
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<tr>
<td>3. setting of parameters in dialysis machines</td>
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<td>17%</td>
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<tr>
<td>7. checking of treatment records</td>
<td>43%</td>
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</tbody>
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**Fig. 3**: Study results for nursing staff2

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2 Per patient per treatment.

3 Steps numbered chronologically on the basis of a dialysis procedure.

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**Fig. 2**: Study results for nursing staff2

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**Fig. 1**: Schematic overview of Nexadia®

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**Fig. 3**: Study results for nursing staff2

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**Fig. 2**: Study results for nursing staff2

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**Fig. 1**: Schematic overview of Nexadia®

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**Fig. 2**: Study results for nursing staff2

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Creating dimensions in treatment quality
With the Dialog+ dialysis system, available in 3 basic configurations, B. Braun is raising the bar in the field of extracorporeal blood treatment. In Dialog+, intelligent software is perfectly integrated into sophisticated high-grade, hardware-equipped original accessories.

As with every one of our products, every purchase is backed by excellent service support and dependable global logistics. The Dialog+ dialysis system represents the foundation of our concept: therapy quality, efficiency and ergonomics.

Nexadia® and Dialog+ in combination
Used in combination, the integrated Nexadia® system and the Dialog+ dialysis machine allow intelligent retrieval and management of data.

The Dialog+ has outstanding network capabilities. It ensures optimum support for users and reduces their daily workload. For example, the touch screen can be used as an input terminal for Nexadia®.

Together, Nexadia® and Dialog+ ensure ideal conditions for high-quality dialysis with optimised processes.

Support and service
The Nexadia® product range also includes software maintenance and upkeep, installation, consulting and training services.
The Nexadia® System

Creating dimensions in process and quality management