

Nikkiso DBB05 Training



Overview of Training

The Philosophy of Kimal is to ensure competent and safe operation of the Nikkiso DBB05. Kimal are committed in the implementation of operator training ultimately benefiting Dialysis unit staff and patients. The estimated training time would be very dependant upon various factors. This is dependant on the number of key trainees and their underlying competencies. Trainees will complete set objectives within this time frame. This training is structured to ensure safe and competent use of the NIKKISO DBB-05.

Part 1

- Will provide an overview of the DBB05 and the basic setting up steps.
- Teaching aids and materials will be provided for instruction
- During this time trainee will have opportunity to discuss any concerns or queries.
- The trainer will be performing the demonstrations

Part 2

- The trainee will be observed performing the "setting up" functions
- Connection to services
- Connecting concentrates / Bicarbonate
- Attaching the blood tubing
- During this section the trainer will be giving help and guidance throughout.
- During this time trainee will have opportunity to discuss any concerns or queries.

Part 3

- The trainee will demonstrate preparation of the DBB05
- Priming and Setting parameters will be observed and assessed.
- During this time trainee will have opportunity to discuss any concerns or queries.

Part 4

- The trainee will demonstrate the initiation of dialysis
- BMP function will be observed and assessed.
- Alarm understanding and troubleshooting will be assessed.
- During this time trainee will have opportunity to discuss any concerns or queries.

Part 5

- The trainee will be observed discontinuing treatment
- The trainee will demonstrated knowledge of disinfection and cleaning of the DBB05

Part 6

- The trainee will demonstrate knowledge of relevant contact details for technical and operational issues related to the DBB05.

Part 7

- Recap of training with any further demonstrations and explanations as necessary.

1.0
Objective

Trainer will demonstrate the machine module and give an overview of machine function and capabilities

Objective met Yes No

State reasons if objective not met

Review/Evaluation

1.1
Objective

Trainer will guide trainee to begin using dialysis machine and familiarise with use of.

Objective met Yes No

State reason if objective not met

Review/Evaluation

2.0
Objective

Trainee will be observed checking machine hosing, electricity connections and switching on of machine. Trainee will demonstrate competence with this.

Objective met Yes No

State reasons if objective not met

Review/Evaluation

2.1
Objective

Trainee will demonstrate correct selection of acid concentration.

Objective met Yes No

State reason if objective not met

Review/Evaluation

2.2
Objective

Trainee will demonstrate the attaching of bicarbonate cartridge to machine

Objective met Yes No

State reasons if objective not met

Review/Evaluation

2.3
Objective

Trainee will demonstrate the lining of the machine using specified blood tubing system

Objective met Yes No

State reason if objective not met

Review/Evaluation

3.0

Objective

Trainee will demonstrate knowledge of machine dialysate monitor (DM) testing and blood monitor testing (BM) and understand the safety implications with these

Objective met Yes No

State reasons if objective not met

Review/Evaluation

3.1

Objective

Trainee will demonstrate priming of machine and understanding of the priming key functions. Trainee will be made aware importance of good priming methods.

Objective met Yes No

State reason if objective not met

Review/Evaluation

3.2

Objective

Trainee will demonstrate use of the level adjustment pump to elevate chamber levels. Will have knowledge of machine expansion chambers and purpose

Objective met Yes No

State reasons if objective not met

Review/Evaluation

3.3

Objective

Trainee will demonstrate ability in priming dialyser by attaching dialyser couplings. Also will be aware of potential use of dialyser rinse option key

Objective met Yes No

State reason if objective not met

Review/Evaluation

**3.4
Objective**

Trainee will demonstrate competence in entering and setting of treatment data values and understanding of treatment prescription

Objective met Yes No

State reasons if objective not met

Review/Evaluation

**4.0
Objective**

Trainee will be competent in commencing dialysis treatment and demonstrate knowledge and safety concerns of treatment screen parameters

Objective met Yes No

State reason if objective not met

Review/Evaluation

4.1
Objective

Trainee will demonstrate competence in troubleshooting alarms and taking appropriate action to rectify potential safety hazards

Objective met Yes No

State reasons if objective not met

Review/Evaluation

4.2
Objective

Trainee will demonstrate competence in blood pressure monitoring using BPM module and understand the appropriate action to take in the event of complications

Objective met Yes No

State reason if objective not met

Review/Evaluation

5.0
Objective

Trainee will show competence in discontinuing treatment and the disconnection mode

Objective met Yes No

State reasons if objective not met

Review/Evaluation

5.1
Objective

Trainee will demonstrate knowledge of disinfection and cleaning processes following end of treatment, and understand issues relating to infection control.

Objective met Yes No

State reason if objective not met

Review/Evaluation

6.0

Objective

Trainee will demonstrate knowledge of relevant contact details for support services, i.e. emergency, supplies and technical.

Objective met

Yes

No

State reason if objective not met

Review/Evaluation

Training structure

Objective 1.0

- Demonstration and general overview of the DBB-05
- Overview of touch-screen technology
- Machine treatment options - single needle, on-line Haemodiafiltration options
- Bicarbonate dialysis

Objective 1.1

- Introduce trainee to the DBB-05 haemodialysis module
- Allow feedback for any issues or questions
- Allow trainee to familiarise themselves with the machine.

Objective 2.0

- Observe trainee placement of water connection and drain hoses, and check of water supply on.
- Check of electric supply and cables
- Switching on of machine using display monitor on/off keys

Objective 2.1

- Observe trainee with selection of concentrate supply and if necessary changing of concentrate should need arise
- Trainee to be knowledgeable of the use of concentrate and safety issues

Objective 2.2

- Observe trainee attaching bicarbonate cartridge and ensuring correct placement of cartridge.

Objective 2.3

- Introduce trainee to blood tubing system with an explanation to various components such as heparin line, expansion chambers and pressure monitors.
- Observe trainee lining the machine, checking blood pump segment is inserted first and blood chambers and pressure monitors are correctly positioned.
- Check lines are correctly attached to the filter prime key

Training structure

Objective 3.0

- Obtain feedback from the trainee as to the functions of the dialysate monitor test (DM test) and blood monitor test (BM)
Trainee will be knowledgeable about the safety implications for these tests

Objective 3.1

- Observe trainee priming the blood tubing system using the correct venous/arterial prime key

Objective 3.2

- Observe the trainee adjusting levels in blood chamber using the level adjust pump key (LAP)
Trainee will be competent in switching between screens during preparation

Objective 3.3

- Observe trainee when attaching dialyser couplings following completion of DM testing.
- Trainee will be knowledgeable of inflow and outflow pathways of dialysate
- Trainee will be instructed in the use of the rinse option key if required

Objective 3.4

- Observe trainee entering treatment parameters using the treatment data key
- Trainee will demonstrate knowledge of each parameter to include ultrafiltration loss, treatment time, heparin prescription and treatment mode
(Prescription may be saved in the patient selection option)

Objective 4.0

- Observe Trainee using connection key and screen for starting treatment
- Trainee will be knowledgeable of treatment screen parameters which will include ultrafiltration loss, blood pump speed and heparin rates.
- Observe trainee adjusting blood flow rates
- Observe trainee in using monitor drop down menus

Training structure

Objective 4.1

- Observe trainee in troubleshooting alarms which will include:

Blood pressure alarm

System pressure alarms - arterial, venous, TMP, dialyser inlet pressure alarm

Turning off of filtration pressures using minimum UF key

- Trainee to articulate what each alarm function is and the safety issues concerning each one

Objective 4.2

- Observe trainee using the blood pressure monitoring system and concurrent settings
- Observe trainee setting blood pressure interval times

Objective 5.0

- Observe trainee discontinuing treatment using disconnect screen key
- Observe trainee performing washback procedure

Objective 5.1

- Observe trainee in preparation for disinfection mode reattach dialyser coupling to housing and draining of dialyser
- Observe detachment of bicarbonate cartridge after draining and closing of holder
- Observe removal of blood tubing system and the use of the screen cleaning programme and key, daily timer function if required will also be utilised.
(Automated cleaning can be programmed)

Objective 6.0

- The trainee will demonstrate knowledge of the appropriate contacts for, technical and operational issues related to the DBB05.

Objective 7.0

- Recap any issues that need further clarification.

Summary Results

Name.....	
Objective	Objective met ? Y/N
1.0	
1.1	
2.0	
2.1	
2.2	
2.3	
3.0	
3.1	
3.2	
3.3	
3.4	
4.0	
4.1	
4.2	
5.0	
5.1	
6.0	

