

Training Program for Dialysis Technician

Day 1: Introduction to Dialysis and Basic Techniques

Morning Session: Theoretical Foundations

1. **Welcome and Introduction (30 minutes)**
 - Overview of the training program.
 - Objectives, schedule, and expectations.
2. **Introduction to Dialysis (1 hour)**
 - Overview of kidney function and failure.
 - Types of dialysis: Hemodialysis and Peritoneal Dialysis.
 - Indications for dialysis therapy.
3. **Dialysis Machine Components and Function (1.5 hours)**
 - Key components: Dialyzer, pump, bloodlines, and dialysate system.
 - Function and operation of the dialysis machine.
 - Safety features and alarms.
4. **Break (15 minutes)**
5. **Basic Infection Control and Safety Procedures (1.5 hours)**
 - Hand hygiene and use of personal protective equipment (PPE).
 - Sterilization and disinfection protocols.
 - Procedures for preventing and managing infections.
 - Storage of dialysis solutions

Lunch Break (1 hour)

Afternoon Session: Hands-On Skills

1. **Setting Up the Dialysis Machine (1.5 hours)**
 - Step-by-step process for machine setup.
 - Preparing and testing the dialysate.
 - Priming the machine and checking for leaks.
2. **Venous Access and Needle Insertion (1.5 hours)**
 - Types of access: Fistula, graft, and central venous catheter.
 - Techniques for needle insertion and cannulation.
 - Troubleshooting common access issues.
3. **Break (15 minutes)**
4. **Patient Preparation and Monitoring (1 hour)**
 - Preparing patients for dialysis: education and consent.
 - Monitoring vital signs and assessing patient condition.
5. **Q&A and Review (30 minutes)**
 - Addressing questions and summarizing the day's content.

Day 2: Advanced Dialysis Techniques and Patient Care

Morning Session: Advanced Techniques

1. **Review of Day 1 (30 minutes)**
 - Recap of key points and skills.
 - Addressing any questions or concerns.

2. Advanced Dialysis Machine Operation (1.5 hours)

- Detailed functions of the dialysis machine.
 - Troubleshooting and managing alarms.
 - Adjusting treatment parameters.
- 3. Dialysis Treatment Planning and Adjustments (1.5 hours)**
- Determining treatment duration and frequency.
 - Adjusting treatment based on patient needs and lab results.
- 4. Break (15 minutes)**
- 5. Complications and Emergency Procedures (1.5 hours)**
- Recognizing and managing common complications: hypotension, clotting, and infections.
 - Emergency procedures (including use of crash cart) and protocols, BLSTraining



Lunch Break (1 hour)

Afternoon Session: Patient-Centered Care

- 1. Patient Education and Support (1 hour)**
- Educating patients about dialysis and self-care.
 - Providing emotional and psychological support.
- 2. Nutritional and Fluid Management (1.5 hours)**
- Importance of diet and fluid restrictions for dialysis patients.
 - Educating patients on dietary and fluid management.
- 3. Break (15 minutes)**
- 4. Case Studies and Problem-Solving (1.5 hours)**
- Reviewing real-life case studies.
 - Group discussions on problem-solving and decision-making.
- 5. Debrief and Feedback (30 minutes)**
- Review of the day's activities.
 - Collecting feedback and addressing any concerns.

Day 3: Equipment Maintenance, Quality Assurance, and Evaluation

Morning Session: Equipment Maintenance

- 1. Review of Day 2 (30 minutes)**
- Quick review of previous day's topics and skills.
 - Preparation for equipment maintenance training.
- 2. Routine Maintenance of Dialysis Machines (1.5 hours)**
- Daily, weekly, and monthly maintenance tasks.
 - Cleaning, calibration, and troubleshooting.
- 3. Break (15 minutes)**
- 4. Quality Assurance and Infection Control (1.5 hours)**
- Quality assurance practices and documentation.
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- Infection control audits and compliance.

Lunch Break (1 hour)

Afternoon Session: Integration and Evaluation

1. **Integrated Dialysis Scenarios (2 hours)**
 - Hands-on simulation involving complex cases.
 - Emphasis on integrating machine operation, patient care, and problem-solving.
2. **Practical Skills Assessment (1 hour)**
 - Evaluation of practical skills through individual assessments.
 - Demonstration of techniques learned and application in simulated scenarios.
3. **Break (15 minutes)**
4. **Written Knowledge Test (1 hour)**
 - Test covering theoretical knowledge, machine operation, patient care, and maintenance.
5. **Certification and Closing Remarks (30 minutes)**
 - Awarding of certificates of completion.
 - Summary of training outcomes and next steps for continued professional development.
6. **Final Q&A and Closing (30 minutes)**
 - Addressing any final questions.
 - Providing additional resources and support information.

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