

# OUTLINE OF BASIC PICC QUALIFICATION TRAINING Printable PDF

## Outline of Basic PICC Qualification Training

Understanding the essentials of Peripherally Inserted Central Catheter (PICC) qualification training is crucial for healthcare professionals aiming to excel in vascular access procedures. The outline of basic PICC qualification training provides a structured pathway to acquire the necessary skills, knowledge, and competencies for safe and effective PICC line placement and management. This comprehensive guide explores the core components, training requirements, and best practices involved in PICC qualification training, ensuring clinicians are well-equipped to deliver optimal patient care.

## Introduction to PICC Lines and Their Clinical Significance

### What is a PICC Line?

- A PICC line is a long, thin, flexible tube inserted into a peripheral vein, typically in the arm.
- It is threaded through the venous system to reach a large central vein near the heart.
- Commonly used for long-term intravenous therapies such as antibiotics, chemotherapy, and nutritional support.

### Clinical Importance of PICC Lines

- Reduce the need for multiple venipunctures.
- Provide reliable access for complex therapies.
- Minimize patient discomfort and improve quality of life.
- Lower the risk of certain complications associated with other central venous access devices.

## Goals and Objectives of PICC Qualification Training

- Equip healthcare providers with knowledge of vascular anatomy and physiology.
- Develop technical skills for safe PICC insertion.
- Ensure understanding of infection control and aseptic techniques.
- Promote patient safety and comfort.

- Foster competence in post-insertion care and complication management.
- Comply with regulatory standards and institutional policies.

## **Core Components of Basic PICC Qualification Training**

### **1. Theoretical Knowledge**

- Anatomy and physiology of venous system.
- Indications and contraindications for PICC placement.
- Types of PICC lines and selection criteria.
- Infection control principles.
- Complication identification and management.
- Legal and ethical considerations.

### **2. Practical Skills Development**

- Patient assessment and preparation.
- Ultrasound-guided vein localization.
- Sterile technique and aseptic protocols.
- Proper insertion techniques.
- Troubleshooting insertion challenges.
- Securing and dressing the catheter.

### **3. Post-Insertion Care and Maintenance**

- Flushing protocols.
- Monitoring for signs of infection or complications.
- Dressing changes and securement.
- Documentation and patient education.
- Removal procedures.

### **4. Competency Assessment**

- Observation of practical skills.
- Knowledge testing through written exams.
- Simulation-based assessments.
- Supervised clinical practice.

- Feedback and remediation.

## **Prerequisites and Eligibility for PICC Qualification**

- Healthcare professionals such as nurses, physicians, or radiologic technologists.
- Prior experience in vascular access or relevant clinical practice.
- Basic understanding of anatomy and sterile procedures.
- Commitment to ongoing education and skill enhancement.

## **Training Methods and Delivery Modalities**

### **1. Didactic Lectures and Seminars**

- Cover theoretical aspects.
- Include multimedia presentations and case studies.

### **2. Hands-On Workshops**

- Practice on mannequins or simulation models.
- Supervised insertion techniques.
- Skill drills and repetitive practice.

### **3. Simulations and Scenario-Based Learning**

- Realistic clinical scenarios.
- Managing complications in a controlled environment.
- Enhancing decision-making skills.

### **4. Clinical Supervision and Mentoring**

- Supervised insertion in clinical settings.
- Feedback from experienced practitioners.
- Gradual transition to independent practice.

### **5. Online Modules and E-Learning**

- Flexible learning options.
- Interactive quizzes and assessments.
- Access to updated guidelines and resources.

## Standardized Competency Assessment Criteria

- Demonstration of correct vein localization and access.
- Adherence to aseptic techniques.
- Proper insertion and securement methods.
- Ability to troubleshoot common issues.
- Knowledge of infection prevention protocols.
- Accurate documentation and patient communication.

## Regulatory and Accreditation Standards

- Compliance with national and international guidelines (e.g., CDC, INS).
- Certification from recognized health authorities.
- Institutional policies on procedural competency.
- Continuing education requirements for recertification.

## Common Challenges in PICC Qualification Training and Solutions

- Variability in clinical experience: Implement simulation-based training to bridge gaps.
- Maintaining skill proficiency: Regular refresher courses and audits.
- Managing patient-specific factors: Tailored training for special populations.
- Ensuring adherence to infection control: Continuous monitoring and audits.

## Best Practices for Effective PICC Qualification Training

- Incorporate multimodal teaching strategies.
- Use high-fidelity simulation for skill mastery.
- Promote interdisciplinary collaboration.
- Establish clear competency benchmarks.
- Provide ongoing mentorship and support.
- Regularly update training content based on evolving guidelines.

## Conclusion

The outline of basic PICC qualification training serves as a foundational framework for healthcare professionals seeking to master peripherally inserted central catheter insertion and management. By integrating comprehensive theoretical knowledge with practical skills, adhering to rigorous assessment standards, and complying with regulatory requirements, clinicians can ensure safe, effective, and patient-centered vascular access care. Continuous education and skill refinement are vital in maintaining competence and adapting to advancements in medical technology and best practices.

**Keywords:** PICC line, PICC qualification, vascular access training, sterile technique, PICC insertion, clinical competency, healthcare training, infection control, patient safety

### Outline of Basic PICC Qualification Training: An In-Depth Review

In contemporary healthcare settings, the use of Peripherally Inserted Central Catheters (PICCs) has become integral to providing efficient, minimally invasive intravenous therapy. Ensuring that healthcare professionals are adequately trained and qualified to insert, manage, and troubleshoot PICCs is critical for patient safety and treatment efficacy. This comprehensive review explores the outline of basic PICC qualification training, emphasizing its importance, core components, and the standards that underpin effective educational programs.

## Introduction to PICC and Its Significance in Healthcare

Peripherally Inserted Central Catheters (PICCs) are long, thin, flexible tubes inserted through a peripheral vein—usually in the arm—and advanced until the tip resides in a large central vein near the heart. Their use facilitates long-term administration of medications, fluids, nutrition, and blood sampling.

**Why PICC Qualification Training Matters:**

- **Patient Safety:** Proper insertion and management reduce complications such as infections, thrombosis, and catheter malposition.
- **Clinical Efficacy:** Skilled insertion minimizes risks and ensures optimal catheter function.
- **Legal and Ethical Compliance:** Proper training aligns with healthcare standards and legal requirements.
- **Professional Development:** Certification fosters confidence and competence among healthcare staff.

## Core Objectives of PICC Qualification Training

The primary goal of PICC qualification training is to prepare healthcare professionals to perform

PICC procedures competently and safely. Specific objectives include:

- Understanding anatomy, physiology, and indications for PICC use.
- Mastering insertion techniques and device management.
- Recognizing and managing potential complications.
- Complying with infection control protocols.
- Documenting procedures accurately and ethically.

## **Foundational Knowledge and Theoretical Components**

A comprehensive PICC training program begins with a solid theoretical foundation, which encompasses:

### **Anatomy and Physiology**

- Vascular anatomy of the upper extremities.
- Central venous system and its relevance.
- Variations in anatomy and their clinical implications.

### **Indications and Contraindications**

- Clinical scenarios warranting PICC placement.
- Patient-specific factors influencing decision-making.

### **Materials and Equipment**

- Types of PICC lines (single, double, triple lumen).
- Necessary accessories: sterile kits, ultrasound devices, guidewires.

### **Infection Control Principles**

- Aseptic techniques.
- Hand hygiene standards.
- Use of personal protective equipment (PPE).

### **Legal and Ethical Considerations**

- Informed consent process.
- Documentation standards.
- Confidentiality and patient rights.

## Practical Skills Development

Hands-on training is a cornerstone of PICC qualification, often delivered through simulation, supervised procedures, and competency assessments.

## Pre-Procedure Assessment

- Patient evaluation: anatomy, anatomy, skin condition, coagulation status.
- Site selection: assessing vein size, accessibility, and patient comfort.

## Insertion Technique

- Use of ultrasound guidance for vein visualization.
- Sterile preparation of the insertion site.
- Local anesthesia administration.
- Vein puncture and guidewire insertion.
- Catheter advancement and confirmation of tip position.

## Confirmation and Securement

- Use of imaging (e.g., chest X-ray) to confirm placement.
- Proper catheter securement and dressing application.

## Post-Insertion Care

- Monitoring for immediate complications.
- Patient education on catheter maintenance.
- Record keeping and documentation.

## Competency Assessment and Certification

To ensure proficiency, training programs incorporate assessment methods such as:

- Written Examinations: Testing theoretical knowledge.
- Practical Demonstrations: Observed insertion procedures.
- Simulation Scenarios: Managing complications or unusual cases.
- Ongoing Competency Checks: Regular re-evaluation to maintain certification.

Successful completion leads to formal qualification, often recognized by institutional protocols or professional bodies.

## Standards and Guidelines Governing PICC Training

The outline of PICC qualification training aligns with national and international standards, such as:

- Infusion Nurses Society (INS) Standards of Practice
- Centers for Disease Control and Prevention (CDC) Guidelines
- National Health Service (NHS) Protocols
- Local Regulatory Authority Regulations

These frameworks emphasize the importance of structured training, minimum competency levels, and continuous professional development.

## Continuing Education and Re-Certification

PICC qualification is not a one-time achievement. Healthcare providers must engage in ongoing education to stay current with evolving technologies and best practices. This involves:

- Attending refresher courses.
- Participating in workshops and seminars.
- Keeping abreast of new guidelines and research.
- Demonstrating continued competency through periodic assessments.

## Challenges and Considerations in PICC Qualification Training

Implementing effective training programs involves addressing several challenges:

- Resource Limitations: Access to simulation labs, ultrasound devices, and trained instructors.
- Variability in Skill Acquisition: Differences in prior experience among trainees.
- Maintaining Competency: Ensuring staff remain skilled in low-volume settings.
- Patient Safety Risks: Balancing training opportunities with patient safety.



Strategies to mitigate these challenges include standardized curricula, mentorship programs, and leveraging technology for remote learning.

## Conclusion: The Critical Role of Structured PICC Qualification Training

The outline of basic PICC qualification training reflects a comprehensive approach that integrates theoretical knowledge, practical skills, and ongoing competency assessment. As PICCs become increasingly prevalent in diverse clinical settings, the importance of standardized, evidence-based training cannot be overstated. Healthcare institutions and professionals must prioritize robust educational frameworks to ensure safe, effective, and patient-centered vascular access care.

By adhering to established standards and continuously updating training protocols, clinicians can minimize complications, improve patient outcomes, and uphold the highest standards of clinical excellence. Ultimately, well-designed PICC qualification programs serve as the foundation for safe vascular access practices across healthcare systems worldwide.

**Question** What are the key components covered in the basic PICC qualification training? The training typically includes anatomy and physiology, sterile techniques, insertion procedures, complication management, and maintenance of PICC lines. **Who is eligible to undergo basic PICC qualification training?** Healthcare professionals such as nurses, physicians, and advanced practice providers with a background in vascular access or infusion therapy are generally eligible. **How long does the basic PICC qualification training usually take?** The duration varies but typically ranges from 2 to 5 days, including both theoretical instruction and practical hands-on practice. **What assessments are involved in obtaining PICC qualification certification?** Candidates usually undergo a written exam and a practical skills assessment to demonstrate proficiency in PICC insertion and maintenance. **Why is formal PICC qualification training important for healthcare providers?** It ensures safe and effective catheter placement, reduces complications, and enhances patient outcomes by providing standardized, evidence-based practices.

**Related keywords:** PICCCertification, vascular access training, PICC line insertion, nurse training, catheter placement, infection control, patient care, medical device training, healthcare certification, clinical skills

## Picc exam questions

**picc exam questions** are a vital component for healthcare professionals preparing for certification and licensure in vascular access nursing. The Peripherally Inserted Central Catheter (PICC) exam

assesses a nurse's knowledge, skills, and competencies related to the insertion, maintenance, and management of PICC lines. As the demand for specialized vascular access continues to grow, understanding the types of questions that appear on the exam—ranging from theoretical knowledge to practical application—is essential for success. This article provides an in-depth overview of typical PICC exam questions, their key topics, and strategies for effective preparation.

## Understanding the PICC Exam Structure

### Types of Questions on the PICC Exam

The PICC exam generally includes various question formats designed to evaluate knowledge comprehensively:

- Multiple-choice questions (MCQs)
- True/False questions
- Scenario-based questions
- Fill-in-the-blank or matching questions

These questions examine various domains such as anatomy, infection control, insertion techniques, patient assessment, and complication management.

### Exam Content Domains

The exam covers several core areas:

- Anatomy and physiology of the vascular system
- Principles of PICC line selection and placement
- Infection prevention and control
- Patient assessment and education
- Troubleshooting and complication management
- Documentation and legal considerations

Understanding these domains helps guide targeted study and practice.

## Common PICC Exam Questions and Topics

### Anatomy and Physiology

Questions in this domain test knowledge of:

- Venous anatomy relevant to PICC placement
- Differences between arteries and veins
- The path of a PICC line from insertion site to central circulation

Sample Question:

Which vein is most commonly used for PICC insertion?

- A) Basilic vein
- B) Cephalic vein
- C) Femoral vein
- D) Jugular vein

Answer: A) Basilic vein

## **Insertion Techniques and Protocols**

Questions focus on:

- Proper hand hygiene and sterile technique
- Selection of insertion site
- Use of ultrasound guidance
- Confirming tip placement

Sample Question:

What is the recommended method to confirm correct PICC tip placement?

- A) Chest X-ray
- B) Ultrasound at the bedside
- C) ECG guidance
- D) Both A and C

Answer: D) Both A and C

## Infection Prevention and Control

Topics include:

- Maximal barrier precautions during insertion
- Proper dressing and flushing techniques
- Recognizing signs of infection

Sample Question:

Which of the following is an essential step in preventing catheter-related bloodstream infections?

- Using sterile gloves during dressing changes
- Flushing the line with non-sterile water
- Reusing dressings after cleaning
- Avoiding hand hygiene

Answer: Using sterile gloves during dressing changes

## Patient Assessment and Education

Questions may test:

- Recognizing signs of complications
- Educating patients on PICC line care
- Assessing for contraindications

Sample Question:

Patients with a PICC line should be instructed to report which of the following?

- A) Fever or chills
- B) Pain or swelling at insertion site
- C) Difficulty breathing
- D) All of the above

Answer: D) All of the above

## Complication Management

Topics include:

- Thrombosis
- Catheter occlusion
- Phlebitis
- Catheter dislodgement

Sample Question:

If a patient develops catheter occlusion, what is the first step in management?

- Attempting to flush the line with normal saline
- Removing the catheter immediately
- Replacing the catheter
- Applying warm compresses

Answer: Attempting to flush the line with normal saline

## Strategies for Preparing for PICC Exam Questions

### Utilize Study Resources Effectively

- Review official certification manuals
- Participate in accredited training programs
- Use practice exams to identify weak areas
- Study current guidelines from organizations like INS and CDC

### Practice Scenario-Based Questions

Scenario questions simulate real-life situations, requiring critical thinking:

- Analyzing patient symptoms
- Choosing appropriate interventions

- Making decisions based on clinical guidelines

Tip: Practice with case studies to enhance problem-solving skills.

## Focus on Key Topics

Prioritize understanding:

- Anatomy and physiology
- Infection control principles
- Insertion techniques
- Recognition and management of complications
- Patient education and communication

## Develop Test-Taking Strategies

- Read questions carefully before answering
- Eliminate obviously incorrect options
- Manage time effectively during the exam
- Review flagged questions if time permits

## Sample PICC Exam Questions for Practice

- Which complication is most commonly associated with PICC lines?

A) Infection

B) Thrombosis

C) Pneumothorax

D) Hemothorax

- What is the recommended maximum dwell time for a PICC line before replacement or removal?

A) 7 days

B) 14 days

C) 6 months

D) As per institutional protocol and patient condition

- During a dressing change, you notice cloudy, foul-smelling drainage around the PICC site. What is the priority action?

A) Continue dressing change and monitor

B) Remove the dressing and notify the healthcare provider immediately

C) Apply a new dressing without further assessment

D) Flush the line with antibiotics

- Which method is most effective for verifying tip placement?

A) Palpation at insertion site

B) Chest X-ray

C) Visual inspection

D) Patient feedback

## Conclusion

Preparing for the PICC exam requires a comprehensive understanding of vascular access principles, technical skills, and patient safety protocols. The exam questions are designed to evaluate both theoretical knowledge and practical competence. By familiarizing oneself with the common question formats, practicing scenario-based problems, and studying core topics such as anatomy, insertion techniques, infection prevention, and complication management, candidates can enhance their confidence and improve their chances of success. Remember, continuous learning and staying updated with current guidelines are key to excelling in the PICC certification process and delivering optimal patient care.

picc exam questions: Navigating the Essentials of Peripheral Intravenous Catheter Certification

In the fast-evolving landscape of healthcare, ensuring that nurses and medical professionals are well-versed in the principles of peripheral intravenous catheterization (PICC) is crucial. Central to this is the PICC exam—a comprehensive assessment designed to evaluate knowledge, clinical skills, and decision-making abilities related to PICC line insertion, maintenance, and troubleshooting. For aspiring and practicing healthcare providers, understanding the nature of PICC exam questions (or PICC exam questions) is fundamental to achieving certification, enhancing patient safety, and

elevating standards of care.

This article delves into the core components of PICC exam questions, highlighting their structure, key topics, and strategies for preparation. Whether you are a student gearing up for your first attempt or a seasoned nurse brushing up on recent guidelines, comprehending what to expect from these questions will streamline your study process and improve your confidence.

## The Role and Significance of PICC Exam Questions

The PICC exam functions as both a knowledge checkpoint and a competency validator for healthcare providers involved in PICC line management. It often forms part of certification programs such as the Infusion Nurses Certification (CRNI®) or specialized credentialing in vascular access. The questions are meticulously crafted to reflect real-world scenarios, current best practices, and evidence-based guidelines.

Why are PICC exam questions important?

- **Assessing Clinical Knowledge:** They ensure that practitioners understand anatomy, indications, contraindications, and potential complications associated with PICC lines.
- **Testing Technical Skills:** Questions often evaluate procedural knowledge, including insertion techniques and maintenance protocols.
- **Promoting Patient Safety:** By emphasizing critical safety procedures, the exam underscores the importance of minimizing risks such as infections or thrombosis.
- **Standardizing Practice:** The questions help establish a benchmark, fostering uniformity in PICC line management across institutions.

## Structure of PICC Exam Questions

Understanding the typical format of PICC exam questions can significantly enhance preparation. These questions usually fall into several categories:

### Multiple-Choice Questions (MCQs)

The most common format involves selecting the best answer from four or five options. They test knowledge on definitions, procedures, and decision-making.

### Case-Based Scenarios

These questions present a clinical situation, requiring applicants to apply their knowledge to identify the appropriate action or diagnosis.



## True/False Statements

Simpler questions that assess understanding of fundamental principles or safety protocols.

## Matching or Fill-in-the-Blank Questions

Less common but used to evaluate precise knowledge of terminology or procedural steps.

Tip: Many questions are designed to test higher-order thinking, requiring application, analysis, or evaluation rather than rote memorization.

## Key Topics Covered in PICC Exam Questions

To excel in the PICC exam, candidates must be familiar with an array of topics spanning anatomy, procedural techniques, infection control, and patient management. Here's a detailed breakdown:

- Anatomy and Physiology Relevant to PICC Lines
  - Understanding vein anatomy, especially the basilic, cephalic, and brachial veins.
  - Knowledge of central venous system pathways.
  - Recognizing anatomical landmarks for insertion sites.
- Indications and Contraindications
  - Appropriate clinical scenarios for PICC placement.
  - Factors contraindicating insertion, such as thrombosis, infection, or coagulopathy.
  - Patient-specific considerations like anatomy or existing medical conditions.
- Insertion Techniques and Equipment
  - Step-by-step procedural protocols, including ultrasound guidance.
  - Equipment essentials: sterile fields, catheters, introducers, and imaging modalities.
  - Proper aseptic techniques to prevent infection.

- Maintenance and Care
  - Flushing protocols using saline or heparinized solutions.
  - Dressing changes and securement methods.
  - Monitoring for signs of complications such as infection, dislodgement, or occlusion.
  
- Complications and Troubleshooting
  - Recognizing early signs of infection, thrombosis, or extravasation.
  - Response protocols for complications.
  - Techniques for catheter removal or replacement.
  
- Infection Control and Prevention
  - Adherence to aseptic protocols.
  - Use of barrier precautions.
  - Proper disposal and handling of sharps and contaminated materials.
  
- Legal and Ethical Considerations
  - Informed consent process.
  - Documentation standards.
  - Patient education and consent.

## Common Question Formats and Sample Topics

### Sample Multiple-Choice Question:

Which of the following is the most appropriate action if a patient with a PICC line develops redness, swelling, and purulent discharge at the insertion site?

- A) Continue monitoring and reassess in 24 hours
- B) Remove the catheter immediately and obtain a culture

C) Flush the line with saline and observe for improvement

D) Tighten the dressing to prevent further infection

Answer: B) Remove the catheter immediately and obtain a culture

Sample Case-Based Scenario:

A 65-year-old patient with a PICC line presents with swelling in the arm and difficulty flushing the line. What is the most probable cause, and what steps should you take?

- Recognize signs of occlusion or thrombosis
- Perform a patency test
- Notify the physician for potential imaging
- Initiate anticoagulation if indicated

Strategies for Effective Preparation

Given the complexity and depth of PICC exam questions, a strategic approach is essential:

- Review Current Guidelines: Familiarize yourself with the latest standards from organizations like Infusion Nurses Society (INS) or CDC.
- Use Practice Tests: Engage with sample questions and mock exams to identify weak areas.
- Understand Rationales: Beyond knowing the correct answer, comprehend why other options are incorrect.
- Stay Updated: Keep abreast of recent advances, new materials, and emerging complications.
- Participate in Workshops: Hands-on training sessions reinforce technical skills and decision-making.
- Create Study Groups: Collaborative learning can clarify complex topics and offer diverse perspectives.

The Importance of Critical Thinking in PICC Questions

While factual knowledge is vital, many PICC exam questions emphasize clinical reasoning. Candidates are often asked to interpret symptoms, prioritize interventions, or decide on appropriate management strategies. Developing critical thinking skills involves:

- Analyzing case details thoroughly.

- Applying evidence-based practices.
- Prioritizing patient safety and comfort.
- Making decisions aligned with clinical guidelines.

## Conclusion: Mastering PICC Exam Questions for Certification Success

The journey to PICC certification hinges upon understanding what the exam questions entail. These questions are crafted not merely to test rote memorization but to evaluate a comprehensive understanding of vascular access principles, technical proficiency, and patient-centered care. By familiarizing oneself with the typical formats, core topics, and effective study strategies, candidates can approach the exam with confidence.

In today's healthcare environment, where vascular access plays a pivotal role in treatment efficacy, mastery of PICC line management through rigorous examination preparation ultimately translates into safer, more effective patient care. Whether you're preparing for your first certification or updating your knowledge base, embracing the challenge of PICC exam questions is a vital step toward professional excellence.

**Question** What are the key topics covered in PICC exam questions? The PICC exam typically covers topics such as project management principles, risk management, cost estimation, scheduling techniques, quality control, procurement processes, and stakeholder management. **How can I effectively prepare for the PICC exam?** Effective preparation includes reviewing the official PICC syllabus, practicing past exam questions, understanding core project management concepts, and participating in mock exams to build confidence. **Are there any recommended study materials for PICC exam questions?** Yes, recommended materials include the official PICC study guides, project management textbooks, online practice tests, and training courses offered by recognized institutes. **What is the format of the PICC exam questions?** The PICC exam questions are typically multiple-choice, designed to assess knowledge, comprehension, and application of project management concepts in real-world scenarios. **How important are case studies in PICC exam questions?** Case studies are often used to evaluate a candidate's ability to apply theoretical knowledge to practical situations, making them an important component of the exam. **What are common pitfalls to avoid when answering PICC exam questions?** Common pitfalls include misreading questions, overthinking, neglecting key details, and failing to apply theoretical concepts appropriately to practical scenarios. **How much time should I allocate for each PICC exam question?** It's advisable to spend approximately 1-2 minutes per question, ensuring enough time to review all questions and manage exam time effectively. **Are there any online resources or practice tests for PICC exam questions?** Yes, many online platforms offer practice questions, mock exams, and study forums to help candidates prepare effectively for the PICC exam. **What is the passing criteria for the PICC exam?** The passing criteria typically involve achieving a minimum score set by the certifying body, often around 70-75%, but candidates should check the specific requirements for their exam version. **How often are PICC exam questions updated to reflect current industry practices?** PICC

exam questions are regularly reviewed and updated by industry experts to ensure they reflect the latest trends, standards, and best practices in project management.

**Related keywords:** PICC line questions, PICC insertion quiz, PICC line certification, PICC line management, PICC line complications, PICC line nursing exam, PICC line training, PICC line anatomy, PICC line care protocols, PICC line troubleshooting

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