SOFTWARE & TECH

# Hip Replacement Nursing Care Plan

Published: November 20, 2026 | Index ID: #-

## Introduction

Undergoing a hip replacement, medically known as total hip arthroplasty, is a significant surgical procedure that can dramatically improve a patient's quality of life by alleviating chronic pain and restoring mobility. However, the success of this surgery extends far beyond the operating room. The **hip replacement nursing care plan** is the blueprint for a patient's recovery, guiding the healthcare team through every phase from pre-operative preparation to post-operative rehabilitation and discharge. A well-structured care plan not only addresses the immediate physiological needs of the patient but also anticipates potential complications, manages pain effectively, and promotes a safe return to daily activities. This comprehensive article will explore the critical components of a nursing care plan for hip replacement, offering insights into assessments, interventions, and patient education that ensure the best possible outcomes.

## Understanding the Hip Replacement Nursing Care Plan

A **nursing care plan for hip replacement** is a dynamic document that outlines individualized patient care based on identified needs and risks. It is a collaborative tool used by nurses, surgeons, physical therapists, and the patient themselves. The primary goals are to prevent complications such as infection, dislocation, and deep vein thrombosis (DVT), manage post-operative pain, and restore function. The plan is built upon the nursing process: assessment, diagnosis, planning, implementation, and evaluation.

### Why a Structured Care Plan is Essential

The first 24 to 72 hours after hip replacement surgery are critical. A standardized yet individualized care plan ensures that no detail is overlooked. From monitoring vital signs and incision sites to ensuring proper positioning and early mobilization, the plan provides a roadmap for consistent, high-quality care. It also serves as a communication tool among different shifts and disciplines, which is vital for patient safety.

## Pre-operative Nursing Care: Setting the Stage for Success

The foundation of a successful recovery begins before the patient ever enters the operating room. The pre-operative phase of the **hip replacement nursing care plan** focuses on education, risk assessment, and physical preparation.

### Comprehensive Patient Assessment

A thorough baseline assessment is conducted, including a review of medical history, current medications (especially blood thinners and anticoagulants), allergies, and nutritional status. The nurse also evaluates the patient's functional status, such as their ability to use a walker or crutches, as this will be essential post-operatively. A key component is assessing the skin integrity around the hip area for any existing wounds or infections that could increase surgical risk.

### Patient Education and Preparation

Education is a cornerstone of pre-operative nursing care. The nurse explains what the patient can expect before and after surgery. This includes:

- Post-operative precautions: Teaching the patient about avoiding hip dislocation by not crossing legs, bending beyond 90 degrees at the hip, or twisting the operated leg.
- Breathing exercises: Instructing the patient on incentive spirometry to prevent pneumonia.
- Pain management expectations: Discussing how pain will be controlled using a multimodal approach.
- Home preparation: Advising the patient to prepare their home by removing trip hazards, raising toilet seats, and creating a safe path for using a walker.

### Pre-operative Interventions

In the hours before surgery, the nurse ensures the patient is nil per os (NPO) as ordered, administers pre-operative antibiotics as prescribed, and completes a pre-operative checklist. Shaving the surgical site is generally avoided to reduce the risk of infection; instead, a surgical clipper may be used if necessary. Anxiolytics may be given to reduce pre-operative anxiety.

## Post-operative Nursing Care: The Critical Phase

Once the patient returns from the recovery room, the post-operative phase of the **nursing care plan for hip replacement** begins immediately. This phase requires vigilant monitoring and proactive interventions.

### Immediate Post-operative Monitoring

Upon arrival to the unit, the nurse assesses the patient's airway, breathing, and circulation (ABCs). Vital signs are monitored frequently—every 15 minutes for the first hour, then hourly until stable. The nurse also checks the surgical incision for drainage, bleeding, or hematoma formation and assesses for proper neurovascular status of the affected limb. This includes checking for pedal pulses, capillary refill, sensation, and motor function.

### Pain Management

Effective pain control is essential for early mobilization and recovery. A multimodal approach is often used, which may include:

- Patient-controlled analgesia (PCA): For the first 24 hours.
- Regional nerve blocks: Which can provide prolonged pain relief.
- Oral analgesics: Such as acetaminophen, NSAIDs, and opioids as needed.
- Ice therapy: Applied to the surgical site to reduce swelling and pain.

The nurse regularly assesses pain using a numeric or visual analog scale and adjusts the plan accordingly. The goal is to keep pain at a level that allows the patient to participate in physical therapy.

### Wound Care and Infection Prevention

The surgical incision is a primary portal for infection. The nurse performs wound care per facility protocol, typically keeping the dressing clean, dry, and intact for the first 24-48 hours. Signs of infection such as increased redness, warmth, swelling, purulent drainage, or an elevated temperature are reported immediately. Strict aseptic technique is used during dressing changes.

### Prevention of Deep Vein Thrombosis (DVT)

Patients are at high risk for DVT after hip replacement due to immobility and vascular trauma. The care plan includes:

- Anticoagulant therapy: Administration of low-molecular-weight heparin or other prescribed agents.
- Sequential compression devices (SCDs): Used while the patient is in bed.
- Early mobilization: Getting the patient out of bed as soon as possible.

- Leg exercises: Ankle pumps and quadriceps sets to promote venous return.

The nurse also monitors for signs of DVT, such as unilateral calf swelling, warmth, redness, or a positive Homan's sign.

### Prevention of Hip Dislocation

Hip dislocation is a serious post-operative complication. The nurse plays a key role in educating the patient and enforcing precautions. The universal precautions for a posterior approach (the most common approach) include:

1. No crossing legs: Use a pillow between legs when lying on the non-operative side.
2. No bending hip beyond 90 degrees: Use a raised toilet seat and avoid low chairs.
3. No twisting of the operated leg: The patient should pivot with their feet pointing forward.

The nurse reinforces these precautions consistently and ensures the patient's environment is set up to support them.

## Nursing Diagnoses and Interventions for Hip Replacement

The care plan is built on evidence-based nursing diagnoses that address the patient's specific needs. Key diagnoses commonly seen in a **hip replacement nursing care plan** include the following.

### 1. Acute Pain related to surgical incision and tissue trauma

**Interventions:**

- Assess pain using a standardized scale every 2 hours and before and after analgesia administration.
- Administer prescribed analgesics on a scheduled basis initially, rather than on-demand, to maintain steady pain control.
- Combine pharmacologic interventions with non-pharmacologic methods such as ice therapy, relaxation techniques, and positioning.
- Evaluate the effectiveness of pain management and adjust the plan in collaboration with the healthcare provider.

### 2. Risk for Impaired Mobility related to pain and post-operative restrictions

**Interventions:**

- Encourage early mobilization as ordered, typically getting the patient to sit at the bedside on the day of surgery or the first day post-op.
- Assist with physical therapy sessions and reinforce the exercises prescribed.
- Provide mobility aids (walker or crutches) and educate the patient on their correct use.
- Set small, achievable goals for mobility each day, such as walking to the doorway or down the hall.

### 3. Risk for Infection related to surgical incision and invasive lines

**Interventions:**

- Monitor the incision site for any signs of infection at each shift.
- Maintain a sterile dressing protocol and change dressings according to policy.
- Ensure the patient receives prophylactic antibiotics as prescribed.
- Educate the patient and family about hand hygiene and signs of infection to report.

### 4. Knowledge Deficit regarding post-operative precautions and home care

**Interventions:**

- Provide verbal and written instructions on hip precautions, activity restrictions, and wound care.
- Use the "teach-back" method to confirm the patient understands the key instructions.
- Involve the family or caregiver in education sessions.
- Provide a list of red flags (e.g., newonset fever, sudden severe pain, chest pain, or shortness of breath) that require immediate medical attention.

## Patient Education and Discharge Planning

Discharge planning begins on the day of admission. The **nursing care plan for hip replacement** includes a detailed plan for the patient's transition from hospital to home or a rehabilitation facility. The goal is to ensure a safe environment and continuity of care.

### Home Safety Assessment

The nurse works with the patient and family to assess the home environment. Recommendations often include:

- Fall prevention: Removing throw rugs, securing cords, and ensuring adequate lighting.
- Bathroom modifications: Installing grab bars, using a shower chair, and a raised toilet seat.
- Living space setup: Arranging furniture to create wide pathways for a walker.

### Medication and Follow-up Care

Before discharge, the nurse ensures the patient understands their medication regimen, including anticoagulants, pain medications, and any antibiotics. Clear instructions are given for follow-up appointments with the surgeon and physical therapy schedule. The patient is also educated on wound care at home, including when to change the dressing and what signs to watch for.

### Activity Progression

Patients are given a clear activity progression plan. For example, they may start with walking short distances with a walker, gradually increasing as tolerated. They are taught how to perform activities of daily living (ADLs) safely, such as bathing, dressing, and getting in and out of bed. The nurse reinforces that full recovery can take several months and that patience and consistency with physical therapy are key.

## Conclusion

A comprehensive **hip replacement nursing care plan** is more than just a checklist; it is a patient-centered roadmap that guides the entire surgical journey. It requires careful pre-operative preparation, vigilant post-operative monitoring, proactive intervention, and thorough patient education. By addressing pain, preventing complications, promoting mobility, and ensuring a safe discharge, the nursing team plays an indispensable role in helping patients regain their independence and quality of life after total hip arthroplasty. As the healthcare landscape continues to evolve, the principles of a well-executed care plan remain fundamental to achieving the best surgical outcomes and ensuring patient satisfaction.

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