

## **Joint Reconstruction (Good Samaritan Hospital)**

### **Year**

R-5

### **Location**

Good Samaritan Hospital (GSH)

### **Duration**

4 Months (Thurs/Fri)

### **Faculty**

Dennis M. Brown, MD

### **Description**

The orthopaedic resident will develop expertise in the evaluation of arthritis of the hip and knee and evaluation of the painful joint replacement in an adult population. The resident will participate in the care of patients on Dr Brown's joint replacement service at GSH and be part of the preop outpatient evaluation, operative care and postoperative care and rehabilitation of hip and knee arthroplasty patients. Call is currently on the VA schedule as the resident participating on this service is the R5 at the VA. Currently this resident spends Thursday afternoon and Friday with Dr. Brown with the goal of increasing his joint replacement experience. If the increase in resident complement is granted, there would be two full-time residents assigned to this service. All duty hour rules are to be followed.

### **Educational Objectives**

1. Work up and present a patient with arthritis of the hip and knee as well as the patient with a painful joint replacement; specifying the diagnosis, additional studies and treatment options. This should include the ability to take a detailed history and perform an accurate exam.
2. Describe the natural history of the patient's problem if untreated, treated nonoperatively and treated operatively.
3. Correctly assist and apply dressings, casts, braces, and orthotics to protect postoperative conditions.
4. Demonstrate preop readiness by specifying the following for each case:
  - Surgical indications
  - Incision, approach relevant anatomy and step by step procedure
  - Expected difficulties and pitfalls
  - Contingency plans
  - Criteria of acceptable results
  - List equipment needed for the fixation of simple fractures
  - Demonstrate attention to detail in follow-up for postop patients
  - Recognize early complications
5. Develop a working knowledge of the regional anatomy of the hip and knee.
6. Residents will be part of a continuum of care for each particular patient.
7. Create an understanding of applied biomechanics and pathomechanics of the hip and knee.
8. Enlarge the knowledge base of the diagnosis and treatment of arthritic conditions from both a surgical and non-surgical perspective.
9. Develop surgical skills in the area of total joint arthroplasty.
10. Understand the diagnostic modalities in the evaluation of the patient with a failed hip or knee arthroplasty.
11. Demonstrate an understanding of the orthopaedic literature as it applies to total joint arthroplasty.

12. Exhibit an ability to preoperatively plan reconstructive procedures of the hip and knee utilizing the literature, biomechanics, biomaterials and an understanding of the pathoanatomy of the affected joint.
13. Develop an understanding of the cost of implants and the need to match the implant with the activity level of the patient.
14. Understand the relationship between surgeon and industry and develop an ethical foundation to keep patient care as the first priority.

## Competencies

### Patient Care

Residents must be able to provide care that is compassionate, appropriate and effective for the treatment of health problems and the promotion of health. Residents are expected to:

- Communicate effectively and demonstrate caring and respectful behaviors when interacting with patients and their families.
- Gather essential and accurate information about the patient.
- Make informed decisions about diagnostic and therapeutic interventions based on patient information and preferences, up-to-date scientific evidence, and clinical judgment.
- Develop and carry out patient management plans, counsel and educate patients and their families.
- Use information technology to support patient care decisions and patient education.
- Provide healthcare services aimed at preventing health problems or maintaining health work with healthcare professionals, including those from other disciplines, to provide patient-focused care.

### Medical Knowledge

Residents must demonstrate knowledge about established and evolving biomedical, clinical, and cognate sciences (e.g. epidemiological) and the application of this knowledge to patient care.

Residents are expected to:

- Demonstrate an investigatory and analytical thinking approach to clinical situations.
- Know and apply the basic and clinically-supportive sciences which are appropriate to general orthopaedic surgery.
- Lead the appropriate joint conferences assigned to the core lecture series.

### Interpersonal and Communication Skills

Residents will at all times demonstrate behavior that is beyond reproach. Residents must be able to demonstrate interpersonal and communication skills that result in effective information exchange and teaming with patients, patients' families and professional associates. Residents are expected to:

- Demonstrate honest, open, civil, and effective communication with patients, staff, and colleagues (medical students, residents, and attendings).
- Create and sustain a therapeutic and ethically sound relationship with patients.
- Use effective listening skills.
- Elicit and provide information using effective nonverbal, explanatory, questioning and *legible writing skills*
- Work effectively with others as a member or leader of a healthcare team or other professional group.

### **Professionalism**

Residents must demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population. Residents are expected to:

- Demonstrate respect, compassion and integrity.
- Be responsive to the needs of patients, society and the profession.
- Be accountable to patients, society and the profession.
- Demonstrate a commitment to ethical principles pertaining to:
  - Provision or withholding of clinical care.
  - Confidentiality of patient information.
  - Informed consent.
  - Business practices.
- Demonstrate sensitivity and responsiveness to patient's culture, age, gender and disabilities.

### **Practice-Based Learning and Improvement**

Residents must be able to investigate and evaluate their patient care practices, appraise and assimilate scientific evidence, and improve their patient care practices. Residents are expected to:

- Analyze practice experience and perform practice-based improvement activities using a systematic methodology.
- Locate, appraise, and assimilate evidence from scientific studies related to their patient's health problems.
- Apply knowledge of study designs and statistical methods to the appraisal of clinical studies and other information on diagnostic and therapeutic effectiveness.
- Use information technology to manage information, access online medical information, and support their own education.
- Facilitate the learning of students and other healthcare professionals.

### **System-Based Practice**

Residents must demonstrate an awareness of and responsiveness to the larger context and system of healthcare and the ability to effectively call on system resources to provide care that is of optimal value. Residents are expected to:

- Understand how their patient care and other professional practices affect other healthcare professionals, the healthcare organization, and the larger society and how these elements of the system affect their own practice.
- Know how types of medical practice and delivery systems differ from one another, including methods of controlling healthcare costs and allocating resources.
- Practice cost-effective healthcare and resource allocation that does not compromise quality of care.
- Advocate for quality patient care and assist patients in dealing with system complexities.
- Know how to partner with healthcare managers and healthcare providers to assess, coordinate and improve healthcare and know how these activities can affect system performance.

### **General Schedule**

Currently it includes only Thursday afternoon and Friday all day with Dr. Brown. The purpose is to discuss cases on Thursday and preop plan for case to be done Friday.

### **Reference List**

- Campbell's Operative Orthopaedics: Must read chapters on Biomaterials and Joint Arthroplasty.
- OKU Hip and Knee Reconstruction: Must read while on VA rotation.
- Adult Recon/Hip and Knee Recon Self-Assessment Examination: Obtain from Peggy Baldwin.

### **Evaluation**

- Review goals and objectives with attendings at beginning of rotations.
- Mid-rotation review.
- End of rotation written evaluation turned into Peggy Baldwin (both attending and resident).
- Duty hours and Op logs must be up to date at the end of the rotation, *before beginning the next rotation.*