

Orthopaedics Levels of Care

Procedure/Skill	Level of Care	Supervision	Milestone/ Competency	Milestone Level
Perform Venipuncture	PGY1	Indirect	MK,PC	1.0/1.5
Start Peripheral IV line	PGY1	Indirect	MK,PC	1.0/1.5
Place Central line** (subclavian and jugular vein)	PGY1	Direct**	MK,PC	1.0/1.5
Draw Blood cultures	PGY1	Indirect	MK,PC	1.0/1.5
Place Foley catheters	PGY1	Indirect	MK,PC	1.0/1.5
Obtain Orpharyngeal control of airway/ambu vent	PGY1	Indirect	MK,PB	1.0/1.5
Perform oral/nasal-gastric tracheal intubation**	PGY1	Direct**	MK,PC	1.0/1.5
Admin local Anesthetics	PGY1	Indirect	MK,PC	1.0/1.5
Dissection and handling of tissues	PGY1	Indirect	MK,PC	1.0/1.5
Repair simple lacerations	PGY1	Indirect	MK,PC	1.0/1.5
Principles and application of eletrocautery	PGY1	Indirect	MK,PB	1.0/1.5
Repair wound closures	PGY1	Indirect	MK,PB	1.0/1.5
Perform wound dressing and daily wound care	PGY1	Indirect	MK,PC,PB	1.0/1.5
Serve as operative assist	PGY1	Indirect	MK,PB,ICS,P	1.0/1.5
Excise or biopsy superficial skin lesion	PGY1	Indirect	MK,PB	1.0/1.5
Perform I&D of superficial (**or deep) fluid collections and/or abscesses	PGY1	Direct**	MK,PC	1.0/1.5
Place (**percuntaneous or open) maintain and remove thoracostomy tubes	PGY1	Direct**	MK,PC,PB	1.0/1.5
Perform diagnostic lumbar puncture**	PGY1	Direct**	MK,PC	1.0/1.5
Obtain and apply split thickness skin grafts **	PGY1	Direct**	MK,PC,PB	1.0/1.5
Repair umbilical and inguinal hernias **	PGY1	Direct**	MK,PC,PB,SBP	1.0/1.5
Perform extremity amputations **	PGY1	Direct**	MK,PC,PB,SBP	1.0/1.5
Draw Blood samples	PGY1	Indirect	MK,PC	1.0/1.5
Place arterial blood pressure monitoring lines **	PGY1	Direct**	MK,PC	1.0/1.5
Remove superficial foreign bodies	PGY1	Indirect	MK,PC,PB	1.0/1.5

Orthopaedics Levels of Care

Apply casts and splints*	PGY1	Direct*	MK,PC,PB, Fractures- Ankle, Femur, Tibia, DRF, Elbow	1.0/1.5
Reduce simple dislocations*	PGY1	Direct*	MK,PC,PB,SBP, Fractures- Ankle, Femur, Tibia, DRF, Elbow	1.0/1.5
Insert Percutaneous pins	PGY2	Indirect	MK,PC,PB	2.0/2.5
Remove hardware (except pelvis)	PGY2	Indirect	MK,PC,PB, Fractures- Ankle, Femur, Tibia, DRF, Elbow	2.0/2.5
Act as first assist for complex orthopaedic operative procedures	PGY2	Indirect	MK,PC,PB,ICS,P	2.0/2.5
Perform moderately complicated wound closures	PGY2	Indirect	MK,PC,PB	2.0/2.5
Perform wound irrigation and debridements	PGY2	Indirect	MK,PC,PB	2.0/2.5
Repair simple lacerations	PGY2	Indirect	MK,PC	2.0/2.5
Perform I&D	PGY2	Indirect	MK,PC	2.0/2.5
Perform closed reductions of all fractures	PGY2	Indirect	MK,PC,PB	2.0/2.5
Perform open reductions of all fractures*	PGY2	Direct*	MK,PC,PB, Fractures- Ankle, Femur, Tibia, DRF, Elbow	2.0/2.5
Tie all knots required in orthopaedic surgery	PGY2	Indirect	MK,PC	2.0/2.5
Use scapel, forceps and scissors effectively	PGY2	Indirect	MK,PC,PB	2.0/2.5
Perform knee, wrist, elbow, ankle, hip*, small joint arthrocentesis	PGY2	Direct*	MK,PC,PB	2.0/2.5
Perform removal of cysts, ganglions, etc*	PGY2	Direct*	MK,PC,PB	2.0/2.5
Apply external fixation*	PGY2	Direct*	MK,PC, Fractures- Ankle, Femur, Tibia, DRF, Elbow	2.0/2.5
Apply casts and splints	PGY2	Indirect	MK,PC, Fractures- Ankle, Femur, Tibia, DRF, Elbow	2.0/2.5
Reduce dislocations	PGY2	Indirect	MK,PC, Fractures- Ankle, Femur, Tibia, DRF, Elbow	2.0/2.5
Recognize Compartment Syndrome	PGY2	Indirect	MK,PC,PB,P	2.0/2.5
Perform complex wound closures	PGY3	Indirect	MK,PC,PB	2.0/2.5

Orthopaedics Levels of Care

Insert Percutaneous Pins for moderately complex fractures	PGY3	Indirect	MK,PC,PB	2.0/2.5
Remove hardware	PGY3	Indirect	MK,PC,PB	2.0/2.5
Expand the ability to assist for complex orthopaedic operative procedures	PGY3	Indirect	MK,PC,PB,ICS,P	2.0/2.5
Perform wound irrigation and debridement of complex open fractures (pelvis**)	PGY3	Direct**	MK,PC,PB	2.0/2.5
Repair complex lacerations	PGY3	Indirect	MK,PC,PB	2.0/2.5
Perform I&D	PGY3	Indirect	MK,PC,PB	2.0/2.5
Perform closed reductions of all fractures and dislocations	PGY3	Indirect	MK,PC,PB	2.0/2.5
Perform open reduction and internal fixation of moderately complex fractures**	PGY3	Direct**	MK,PC,PB	2.0/2.5
Perform nailing of tibia and femur**	PGY3	Direct**	MK,PC,PB	2.0/2.5
Understand and use most orthopaedic equipment	PGY3	Indirect	MK,PB	2.0/2.5
Understand the basic use of equipment required to insert a total joint	PGY3	Indirect	MK,PB	2.0/2.5
Be able to negotiate the knee joint with an arthroscopy	PGY3	Indirect	MK,PC,PB	2.0/2.5
Perform knee, wrist, elbow, ankle, hip, small joint arthrocentesis	PGY3	Indirect	MK,PC,PB	2.0/2.5
Perform curettage and bone grafting of bony cysts**	PGY3	Direct**	MK,PC,PB	2.0/2.5
Be able to perform moderately complex tendon repairs**	PGY3	Direct**	MK,PC,PB	2.0/2.5
Be able to obtain Iliac crest bone graft	PGY3	Indirect	MK,PC,PB	2.0/2.5
Apply external fixators on long bones of lower extremity*	PGY3	Direct*	MK,PC,PB	2.0/2.5
Perform simple hand procedures**	PGY3	Direct**	MK,PC,PB	2.0/2.5
Perform complex wound closures	PGY4	Indirect	MK,PC,PB	3.0/3.5

Orthopaedics Levels of Care

Insert percutaneous pins for complex fracures	PGY4	Indirect	MK,PC,PB	3.0/3.5
Perform wound I&D of complex open fractures including pelvic	PGY4	Indirect	MK,PC,PB,SBP	3.0/3.5
Repair complex lacerations	PGY4	Indirect	MK,PC,PB	3.0/3.5
Repair complex tendon lacerations (Zonell of hand**)	PGY4	Direct**	MK,PC,PB,SBP	3.0/3.5
Perform I&D of all abscesses	PGY4	Indirect	MK,PC,PB,SBP	3.0/3.5
Perform closed reductions of all fractures and dislocations	PGY4	Indirect	MK,PC,PB	3.0/3.5
Perform open reductions and internal fixation of complex fractures**	PGY4	Direct**	MK,PC,PB	3.0/3.5
Perform nailing of tibia and femur**	PGY4	Direct**	MK,PC,PB	3.0/3.5
Understand and use all commonly used orthopaedic equipment	PGY4	Indirect	MK,PB	3.0/3.5
Be able to perform primary total knee and hip replacement**	PGY4	Direct**	MK,PC,PB	3.0/3.5
Be able to preoperatively plan for re-do total knee and hip replacement	PGY4	Indirect	MK,PC,PB,SBP	3.0/3.5
Be able to negotiate the knee and shoulder joint with an arthroscopy**	PGY4	Direct**	MK,PC,PB	3.0/3.5
Perform knee, wrist, elbow, ankle, hip, small joint arthrocentesis	PGY4	Indirect	MK,PC,PB	3.0/3.5
Perform curettage and bone grafting of bony cysts	PGY4	Indirect	MK,PC,PB	3.0/3.5
Be able to obtain Iliac crest bone graft	PGY4	Indirect	MK,PC,PB	3.0/3.5
Apply external fixators on long bones of lower extremity	PGY4	Indirect	MK,PC,PB	3.0/3.5
Perform simple hand procedures**	PGY4	Direct**	MK,PC,PB	3.0/3.5
Perform adequate exposure of the spine	PGY4	Indirect	MK,PC,PB	3.0/3.5
Preoperatively plan for adult osteotomies	PGY4	Indirect	MK,PC,PB	3.0/3.5
Perform complex wound closures	PGY5	Indirect	MK,PC,PB	4.0/4.5
Insert percutaneous pins for complex fractures	PGY5	Indirect	MK,PC,PB	4.0/4.5

Orthopaedics Levels of Care

Perform wound I&D of complex open fractures including pelvic	PGY5	Indirect	MK,PC,PB,SBP	4.0/4.5
Repair complex lacerations	PGY5	Indirect	MK,PC,PB	4.0/4.5
Repair complex tendon lacerations (Zonell of hand**)	PGY5	Direct**	MK,PC,PB,SBP	4.0/4.5
Perform I&D of all abscesses	PGY5	Indirect	MK,PC,PB	4.0/4.5
Perform closed reductions of all fractures and dislocations	PGY5	Indirect	MK,PC,PB	4.0/4.5
Perform open reduction and internal fixation of moderately complex fractures**	PGY5	Direct**	MK,PC,PB	4.0/4.5
Perform nailing of tibia and femur**	PGY5	Direct**	MK,PC,PB	4.0/4.5
Understand and use all commonly used orthopaedic equipment	PGY5	Indirect	MK,PB	4.0/4.5
Be able to perform primary total knee and hip replacement**	PGY5	Direct**	MK,PC,PB	4.0/4.5
Be able to perform revision total knee and hip replacement**	PGY5	Direct**	MK,PC,PB	4.0/4.5
Be able to preoperatively plan for revision total knee and hip replacements	PGY5	Indirect	MK,PC,PB,SBP	4.0/4.5
Be able to perform a knee arthroscopy and meniscal repair/debridement	PGY5	Indirect	MK,PC,PB	4.0/4.5
Be able to perform a shoulder arthroscopy and labral repair**	PGY5	Direct**	MK,PC,PB	4.0/4.5
Be able to perform an ACL reconstruction	PGY5	Indirect	MK,PC,PB	4.0/4.5
Perform knee, wrist, elbow, ankle, hip, small joint arthrocentesis	PGY5	Indirect	MK,PC,PB	4.0/4.5
Perform curettage and bone grafting of bony cysts	PGY5	Indirect	MK,PC,PB	4.0/4.5
Apply external fixators on long bones of lower extremity	PGY5	Indirect	MK,PC,PB	4.0/4.5
Perform complex hand procedures**	PGY5	Direct**	MK,PC,PB	4.0/4.5

Orthopaedics Levels of Care

Perform open reduction and internal fixation of all complex fractures**	PGY5	Direct**	MK,PC,PB	4.0/4.5
Perform adequate exposure of the spine	PGY5	Indirect	MK,PC,PB	4.0/4.5
Perform fracture and dislocation reductions of the spine**	PGY5	Direct**	MK,PC,PB	4.0/4.5
Plan and perform adult osteotomies	PGY5	Indirect	MK,PC,PB	4.0/4.5
Manage intraoperative emergencies (i.e., bleeding, fractures, nerve injuries)**	PGY5	Direct**	MK,PC,PB,SBP	4.0/4.5

KEY
* Supervision
Direct -the supervising physician is physically present with the resident and patient.
*A faculty physician, other than another resident, is physically present during the key portions of the procedure or is immediately available.
Indirect -the supervising physician is physically within the hospital or other site of patient care and is immediately available to provide direct supervision.
Oversight - the supervising physician is available to provide review of procedures/encounters with feedback after care is provided.
**Core Competencies
1. Patient Care (PC)
2. Medical Knowledge (MK)
3. Practice-Based Learning & Improvement (PBL)
4. Systems-Based Practice (SBP)
5. Interpersonal & Communication Skills (IC)
6. Professionalism (P)