

UCSF TOTAL KNEE ARTHROPLASTY ENHANCED RECOVERY PATHWAY									
ANESTHESIA		SURGERY		NURSING	PHYSICAL THERAPY	PATIENT			
DAYS B4	PREPARE/APS	Prepare Consult: deliver instructions via MyChart, email, mail, or in-person		Patient education	Educate patients in pre-operative teaching class	Complete questionnaires			
		Enter pre-op orders (see below)		Surgery scheduling, discharge planning initiation		Administer questionnaires (RAPT, Knee Society Score, UCLA Activity Level, SF12v2, WOMAC, KOOS)	Enroll in MyChart		
				Screen for anemia with Hemocue		Give patient Boost Breeze and instructions	Review educational material, attend pre-op teaching class		
DOS PRE-OP	MEDICATIONS	Pre-op warming, IV placement		Complete consent, site marking, 24-hour update, risks/benefits note Vancomycin 1 G IV (for revisions), surgeon to order	Complete pre-op RN checklists	If there is any chance of pregnancy, please discuss with RN/MD.			
		ANALGESICS	Gabapentin				600mg once	Apply warming gown to patient	Nothing by mouth after midnight, except Boost Breeze 2 hr before coming to hospital (surgery may be delayed if consumed later)
			Acetaminophen				1000mg once		
			Celecoxib (if eGFR>60)				400mg once		
REGIONAL	Adductor canal block - Single shot for primary TKA and catheter placement for revisions: ropivacaine 0.2% 25 mL		Notify anesthesia teams of patients with anticipated early discharge	Additional medications may also be ordered	Risks of surgery and anesthesia will be discussed				
INTRA-OP	TEMP	15-20 mL/kg (IBW) crystalloid during case		Periarticular injection: Ropivacaine 0.2% 75 mL, +/- epi 0.1 mg					
		Maintain patient temperature above 36.0 C							
	MEDICATIONS	ABX	Antibiotic: Cefazolin						
		INFUSIONS	If opioid-tolerant (>100 MEQs), ketamine 0.2 mg/kg IV bolus then an infusion at 2 mcg/kg/min. Consult the APS after completing ketamine infusion orderset (APEX).						
		TXA	TXA 10 mg/kg IV prior to incision and 10 mg/kg IV at deflation of tourniquet (exclude pt with h/o embolic event, hypercoaguable d/o, cardiac or peripheral stents in place)						
	PONV	Ondansetron 4mg IV x 1							
		Decadron 4-8 mg IV x 1 if >2 PONV risk factor							
ANESTHETIC	SAB: 10-15 mg bupivacaine, +/- fentanyl 10-15 mcg (Discuss any IT morphine with APS and surgical team)								
	GA for patient refusal or contraindication of SAB								
PACU	MEDICATIONS	Order opioid of choice for severe pain: Hydromorphone or		Labs: only if indicated	Hydromorphone or Morphine IV PRN (severe)				
		Order antiemetics							
		Adductor canal catheter infusion: Ropivacaine 0.2% at 8							

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SURGERY/PAIN SERVICE		SURGERY	NURSING	PHYSICAL THERAPY	PATIENT	
FLOOR/ICU POD 0	MEDICATIONS	Gabapentin 300mg PO TID	Bowel regimen for opioid-induced constipation: Colace + Senna	Vital signs q4, I&O qshift, daily weight, incision care.		Ankle pumps and circles in bed, 10x every hour
	Acetaminophen 1000mg PO q8H			Out of bed (OOB) with RN		Incentive Spirometry x15 q 1H
	Celecoxib (if eGFR>60) 200mg PO BID	Order PT	Advance to regular diet		Advance to regular diet	
	If opioid-tolerant (>100 MEQs), continue ketamine infusion 2 mcg/kg/min and maintain daily opioid requirement.	Labs: only if indicated	Foley Catheter to gravity		Out of bed (OOB) with RN	
	Oxycodone PRN moderate pain, morphine or hydromorphone PRN severe pain. If patient requires initiation of PCA, consider initiation of					
	Adductor canal catheter infusion: Ropivacaine 0.2% at 8					
FLOOR/ICU POD 1	MEDICATIONS	Gabapentin 300mg PO TID	Labs: CBC, chemistry panel	Vital Signs q 4H, I&O shift, weight daily, surgical incision care	Evaluate, educate, and mobilize patients. Goals: OOB, start walk, up to chair for all meals.	Sit up in chair for all meals. Do knee exercises 3x/day. Bridge knee in bed.
	Acetaminophen 1000mg PO q8H			DVT ppx: Enoxaparin 40 mg SQ 0600		
	Celecoxib 200mg PO BID		Regular Diet		Make discharge disposition and DME recommendations	Incentive Spirometry x15 q 1H
	Stop ketamine infusion and PCA (if used) when adductor canal catheter removed.		Remove Foley Catheter in AM			Regular Diet
	Adductor canal catheter infusion: Ropivacaine 0.2% at 8 mL/hr. Removal at 1800.		Apply ice to knee			
			Ambulation: as per PT			
FLOOR/ICU POD 2	MEDICATIONS	Gabapentin 300mg PO TID	Labs: CBC, chemistry panel only if indicated	Vital Signs q 4H, I&O shift, weight daily, surgical incision care abdomen	Complete education and mobility training. Goals for DC home: I	Continue exercises 3x/day
	Acetaminophen 1000mg PO q8H			Ambulation: as per PT		
	Celecoxib 200mg PO BID	Rx: bowel regimen, DVT ppx	Regular Diet			Regular Diet
		Rx: Celecoxib 200mg PO BID #28 (14 days)		DVT ppx: Enoxaparin 40 mg SQ daily	Order mobility DME if discharged to	
		Rx: Gabapentin 300mg PO TID #42 (14 days)				
		OTC: Acetaminophen 1000mg PO q8H ATC.				

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SURGERY/PAIN SERVICE		SURGERY	NURSING	PHYSICAL THERAPY	PATIENT
POST-DISCHARGE	2 WEEK	Assess wound, pain control, functional and neurovascular status. Suture/staple removal. severe, persistent pain: consider referral to UCSF	Administer questionnaires (Knee Society Score, UCLA Activity Level, SF12v2, WOMAC, KOOS) at 6 month and 1 year follow-up.		Continue PT: home vs outpatient (focus gait, strength, ROM). acute rehab or skilled nursing facility, discharge planning slowly. Wean from assistive devices direction of physical therapist.
	6 WEEK	Assess pain control, functional and neurovascular status. Obtain x-rays, med reconciliation. For severe, persistent pain: consider referral to UCSF chronic pain clinic			