

	Dosing interval	Recommended timing of surgery since last medication dose
Medications to continue through surgery		
DMARDs: continue these medications through surgery (all patients)		
Methotrexate	Weekly	Anytime
Sulfasalazine	Once or twice daily	Anytime
Hydroxychloroquine	Once or twice daily	Anytime
Leflunomide (Arava)	Daily	Anytime
Doxycycline	Daily	Anytime
Apremilast (Otezla)	Twice daily ^b	Anytime ^b
Severe SLE-specific medications: continue these medications in the perioperative period in consultation with the treating rheumatologist ^c		
Mycophenolate mofetil	Twice daily	Anytime
Azathioprine	Daily or twice daily	Anytime
Cyclosporine	Twice daily	Anytime
Tacrolimus	Twice daily (IV and PO)	Anytime
Rituximab (Rituxan)	IV every 4–6 months ^b	Month 4–6 ^b
Belimumab SC (Benlysta)	Weekly ^b	Anytime ^b
Belimumab IV (Benlysta)	Monthly ^b	Week 4 ^b
Anifrolumab (Saphnelo) ^d	IV every 4 weeks ^b	Week 4 ^b
Voclosporin (Lupkynis) ^d	Twice daily ^b	Continue ^b
Medications to withhold prior to surgery^e		
Biologics: withhold these medications through surgery		
Infliximab (Remicade)	Every 4, 6, or 8 weeks	Week 5, 7, or 9
Adalimumab (Humira)	Every 2 weeks	Week 3
Etanercept (Enbrel)	Every week	Week 2
Abatacept (Orencia)	Monthly (IV) or weekly (SC)	Week 5; week 2
Certolizumab (Cimzia)	Every 2 or 4 weeks	Week 3 or 5
Rituximab (Rituxan)	2 doses 2 weeks apart every 4–6 months	Month 7
Tocilizumab (Actemra)	Every week (SC) or every 4 weeks (IV)	Week 2; week 5
Anakinra (Kineret)	Daily	Day 2
IL-17 secukinumab (Cosentyx)	Every 4 weeks	Week 5
Ustekinumab (Stelara)	Every 12 weeks	Week 13
Ixekizumab (Taltz) ^d	Every 4 weeks ^b	Week 5 ^b
IL-23 guselkumab (Tremfya) ^d	Every 8 weeks ^b	Week 9 ^b
JAK inhibitors: withhold this medication 3 days prior to surgery ^f		
Tofacitinib (Xeljanz)	Daily or twice daily ^b	Day 4 ^b
Baricitinib (Olumiant) ^d	Daily ^b	Day 4 ^b
Upadacitinib (Rinvoq) ^d	Daily ^b	Day 4 ^b
Not severe SLE: withhold these medications 1 week prior to surgery		
Mycophenolate mofetil	Twice daily	1 week after last dose ^b
Azathioprine	Daily or twice daily	1 week after last dose
Cyclosporine	Twice daily	1 week after last dose ^b
Tacrolimus	Twice daily (IV and PO)	1 week after last dose ^b
Rituximab (Rituxan)	Every 4–6 months	Month 7
Belimumab IV (Benlysta)	Monthly ^b	Week 5 ^b
Belimumab SC (Benlysta)	Weekly ^b	Week 2 ^b

DMARDs = disease-modifying antirheumatic drugs; SLE = systemic lupus erythematosus; IV = intravenous; PO = by mouth; SC = subcutaneous; IL = interleukin.

^a Dosing intervals obtained from prescribing information provided online by pharmaceutical companies.

^b Recommendation that has changed since 2017.

^c Severe SLE indicates organ-threatening disease.

^d Drug added for 2022 update.

^e For patients with rheumatoid arthritis, ankylosing spondylitis, psoriatic arthritis, or all SLE for whom antirheumatic therapy was withheld prior to undergoing total joint arthroplasty, antirheumatic therapy should be restarted once the wound shows evidence of healing, any sutures/staples are out, there is no significant swelling, erythema, or drainage, and there is no ongoing nonsurgical site infection, which is typically ~14 days.

^f Recommendation pertains to infection risk and does not account for risk of cardiac events or venous thromboembolism.

Adapted from the 2017 American College of Rheumatology/American Association of Hip and Knee Surgeons guideline (26).