

# VGH & UBCH Preoperative Medication Guide

## Introduction - How to Use the Preoperative Medication Guide

The Pre-Admission Clinic will review patient's medications for ones that require dosing instructions and/or modifications prior to surgery as per **Section 1. Preoperative Management of Medication**. **Section 1** provides instructions for pre-operative medications, but does **NOT** make recommendations for dosing or restarting medications in the post-operative period.

The preoperative medication instructions presented here fulfill criteria for major surgeries. They also permit the use of neuraxial or regional anesthesia wherever indicated whether a procedure is minor or major in nature. For this reason, these recommendations adopt a conservative approach designed to prevent case cancellations due to inappropriate dosing prior to surgery, and to optimize patient outcomes. Based on the invasiveness of the procedure, the risk of bleeding, or other patient specific factors, clinicians may wish to give medication instructions different to those presented in Table 1. If this is the case, Clinicians must write patient specific orders that stipulate specific variation in medication dosing different to those presented in this guideline.

### How to use Section 1.

- 1) For each medication that a patient is taking, use the find function "**Ctrl + F**" and type in medication name or class of medication
- 2) The document will jump to the medication (if available in Section 1) and is highlighted/shaded
- 3) Follow instructions detailed for the medication as per the column heading as follows (N.B. Instructions are the same regardless of medication administration time i.e. whether a medication is taken in the morning or the evening):
  - a. Patient Specific Order may be Required
  - b. Take last dose \_\_\_ days before date of surgery
  - c. Do NOT take on day of surgery
  - d. Continue including day of surgery
  - e. Comments – please review for additional relevant information
- 4) COMBINATION medications – if one of the components of a combination medication is to be held before surgery, the combination medication should be held
- 5) If medication is not in Table 1, consult Anesthesiologist or Clinical Pharmacist

**Insulin:** for all diabetic patients on insulin, refer to **Section 3. Preoperative Management of Insulin** for recommended dosing.

**Aminolevulinic Acid (Gleolan)** may lead to phototoxic skin reactions. Avoid other phototoxic medications **for 24 hours before and after** administration of Gleolan. Refer to **Section 4. Preoperative Management of Aminolevulinic acid (Gleolan)** for a list of potential interacting medications.

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Medication Class	Generic Name	Brand Name	Patient Specific Order may be required	Take last dose ___ days before date of surgery	Do NOT take on DAY of surgery	Continue including DAY of surgery	Comments
Herbal medications				Last dose 8 days before date of surgery	X		
Vitamins / Supplements (non-prescription)				Last dose 8 days before date of surgery	X		
Vitamins / Supplements prescribed by physician (NOT by naturopath/homeopath)					X		
<b>Antiplatelet Agents</b>							
	acetylsalicylic acid , ASA	Aspirin	See <a href="#">Section 2. Preoperative Management of ASA (Aspirin)</a>				Clinician MUST provide specific instructions to patient
	dipyridamole - ASA	Aggrenox	as per ASA, see <a href="#">Section 2.</a>				Clinician MUST provide specific instructions to patient
	clopidogrel	Plavix	Cardiology or Neurology (see Comments)	Last dose 8 days before date of surgery	X		consult <a href="#">Cardiology</a> if: - within 3 months of elective PCI stenting or - within 6 months of stenting due to acute coronary syndrome (ACS) consult <a href="#">Neurology</a> if within 3 months of endovascular thrombectomy or carotid artery stent
	prasugrel	Effient	Cardiology or Neurology (see Comments)	Last dose 8 days before date of surgery	X		consult <a href="#">Cardiology</a> if: - within 3 months of elective PCI stenting or - within 6 months of stenting due to acute coronary syndrome (ACS) consult <a href="#">Neurology</a> if within 3 months of endovascular thrombectomy or carotid artery stent
	ticagrelor	Brilinta	Cardiology or Neurology (see Comments)	Last dose 8 days before date of surgery	X		consult <a href="#">Cardiology</a> if: - within 3 months of elective PCI stenting or - within 6 months of stenting due to acute coronary syndrome (ACS) consult <a href="#">Neurology</a> if within 3 months of endovascular thrombectomy or carotid artery stent
	eptifibatide	Integrilin		Last dose 12 hours before time of surgery			
<b>Anticoagulant</b>							
	warfarin	Coumadin		Last dose 6 days before date of surgery	X		Some patients may have indication for bridging, consult with physician
	dabigatran	Pradaxa	Hematology (See Comments)	Last dose 6 days before date of surgery*	X		Consider <a href="#">Hematology</a> consult if within 3 months of thrombosis event. *Last dose adjustment may be considered based on renal function, thrombotic risk and projected use of neuraxial anesthesia. Consult with anesthesia if last dose adjustment is considered.
	apixaban	Eliquis	Hematology (See Comments)	Last dose 4 days before date of surgery	X		Consider <a href="#">Hematology</a> consult if within 3 months of thrombosis event
	rivaroxaban	Xarelto	Hematology (See Comments)	Last dose 4 days before date of surgery	X		Consider <a href="#">Hematology</a> consult if within 3 months of thrombosis event
	edoxaban	Lixiana	Hematology (See Comments)	Last dose 4 days before date of surgery	X		Consider <a href="#">Hematology</a> consult if within 3 months of thrombosis event

Medication Class	Generic Name	Brand Name	Patient Specific Order may be required	Take last dose ___ days before date of surgery	Do NOT take on DAY of surgery	Continue including DAY of surgery	Comments
	fondaparinux <i>treatment dose</i>	Arixtra	Hematology (See Comments)	<b>Treatment dose</b> last dose 3 days before date of surgery  <b>CrCl 30-50 mL/min</b> last dose 5 days before date of surgery	X		Consider <u>Hematology</u> consult if within 3 months of thrombosis event
	fondaparinux <i>prophylaxis dose</i>	Arixtra	Hematology (See Comments)	<b>Prophylaxis dose</b> last dose 2 days before date of surgery	X		Consider <u>Hematology</u> consult if within 3 months of thrombosis event
	dalteparin <i>treatment dose</i>	Fragmin	Hematology (See Comments)	<b>Dosage more than 5000 units/day</b> last dose 2 days before date of surgery	X		Consider <u>Hematology</u> consult if within 3 months of thrombosis event
	dalteparin <i>prophylaxis dose</i>	Fragmin	Hematology (See Comments)	<b>Dosage 5000 units/day or less</b> no dose within 12 hours of surgery	X		Consider <u>Hematology</u> consult if within 3 months of thrombosis event
	enoxaparin <i>treatment dose</i>	Lovenox, Inclunox, Redesca, Noromby	Hematology (See Comments)	<b>Dosage more than 40 mg/day</b> last dose 2 days before date of surgery	X		Consider <u>Hematology</u> consult if within 3 months of thrombosis event
	enoxaparin <i>prophylaxis dose</i>	Lovenox, Inclunox, Redesca, Noromby	Hematology (See Comments)	<b>Dosage 40 mg/day or less</b> no dose within 12 hours of surgery	X		Consider <u>Hematology</u> consult if within 3 months of thrombosis event
	nadroparin <i>treatment dose</i>	Fraxiparine	Hematology (See Comments)	<b>Dosage more than 2850 units/day</b> last dose 2 days before date of surgery	X		Consider <u>Hematology</u> consult if within 3 months of thrombosis event
	nadroparin <i>prophylaxis dose</i>	Fraxiparine	Hematology (See Comments)	<b>Dosage 2850 units/day or less</b> no dose within 12 hours of surgery	X		Consider <u>Hematology</u> consult if within 3 months of thrombosis event
	tinzaparin <i>treatment dose</i>	Innohep	Hematology (See Comments)	<b>Dosage more than 3500 units/day</b> last dose 2 days before date of surgery	X		Consider <u>Hematology</u> consult if within 3 months of thrombosis event
	tinzaparin <i>prophylaxis dose</i>	Innohep	Hematology (See Comments)	<b>Dosage 3500 units/day or less</b> no dose within 12 hours of surgery	X		Consider <u>Hematology</u> consult if within 3 months of thrombosis event

**Cardiovascular Medications**

<b>Angiotensin-Converting Enzyme (ACE) inhibitors</b>	benzapril	Lotensin		Last dose 2 days before date of surgery	X		
	captopril	Capoten		Last dose 2 days before date of surgery	X		
	cilazapril	Inhibace		Last dose 2 days before date of surgery	X		
	enalapril	Vasotec		Last dose 2 days before date of surgery	X		
	fosinopril	Monopriol		Last dose 2 days before date of surgery	X		
	lisinopril	Prinvil, Zestril		Last dose 2 days before date of surgery	X		
	perindopril	Coversyl		Last dose 2 days before date of surgery	X		

Medication Class	Generic Name	Brand Name	Patient Specific Order may be required	Take last dose ___ days before date of surgery	Do NOT take on DAY of surgery	Continue including DAY of surgery	Comments
	quinapril	Accupril		Last dose 2 days before date of surgery	X		
	ramipril	Altace		Last dose 2 days before date of surgery	X		
	trandolapril	Mavik		Last dose 2 days before date of surgery	X		
<b>Angiotensin II Receptor Blockers (ARBs)</b>	azilsartan	Edarbi		Last dose 2 days before date of surgery	X		
	candesartan	Atacand		Last dose 2 days before date of surgery	X		
	eprosartan	Teveten		Last dose 2 days before date of surgery	X		
	irbesartan	Avapro		Last dose 2 days before date of surgery	X		
	losartan	Cozaar		Last dose 2 days before date of surgery	X		
	olmesartan	Olmotec		Last dose 2 days before date of surgery	X		
	telmisartan	Micardis		Last dose 2 days before date of surgery	X		
	valsartan	Diovan		Last dose 2 days before date of surgery	X		
<b>Renin Inhibitor</b>	aliskiren	Rasilez		Last dose 2 days before date of surgery	X		
<b>Beta Blockers</b>	acebutolol	Sectral				√	
	atenolol	Tenormin				√	
	bisoprolol	Monacor				√	
	metoprolol	Lopresor				√	
	nebivolol	Bystolic				√	
	carvedilol	Coreg				√	
	labetalol	Trandate				√	
	nadolol	Corgard				√	
	propranolol	Inderal				√	
	sotalol	Rylosol				√	
<b>Calcium Channel Blockers</b>	amlodipine	Norvasc				√	
	felodipine	Plendil				√	
	nifedipine	Adalat				√	
	diltiazem	Tiazac, Cardizem				√	
	verapamil	Isoptin				√	
<b>Digoxin</b>	digoxin					√	
<b>Diuretics, Loop</b>	bumetanide	Burinex				√	Consideration for stopping prior to surgery on per-patient basis
	ethacrynic acid	Edicrin				√	Consideration for stopping prior to surgery on per-patient basis
	furosemide	Lasix				√	Consideration for stopping prior to surgery on per-patient basis

Medication Class	Generic Name	Brand Name	Patient Specific Order may be required	Take last dose ___ days before date of surgery	Do NOT take on DAY of surgery	Continue including DAY of surgery	Comments
<b>Diuretics, Potassium Sparing</b>	amiloride	Midamor				√	Consideration for stopping prior to surgery on per-patient basis
	eplerenone	Inspra				√	Consideration for stopping prior to surgery on per-patient basis
	spironolactone	Aldactone				√	Consideration for stopping prior to surgery on per-patient basis
	triamterine	Dyrenium, Triazide				√	Consideration for stopping prior to surgery on per-patient basis
<b>Diuretics, Carbonic Anhydrase Inhibitor</b>	acetazolamide	Diamox				√	Consideration for stopping prior to surgery on per-patient basis
	metazolamide	Neptazane				√	Consideration for stopping prior to surgery on per-patient basis
<b>Diuretics, Thiazide</b>	chlorthalidone	Uridone				√	Consideration for stopping prior to surgery on per-patient basis
	hydrochlorothiazide					√	Consideration for stopping prior to surgery on per-patient basis
	metolazone	Zaroxolyn				√	Consideration for stopping prior to surgery on per-patient basis
	indapamide	Lozide				√	Consideration for stopping prior to surgery on per-patient basis
<b>Vasodilator</b>	hydralazine	Apresoline				√	
	minoxidil	Loniten				√	
<b>Nitric Oxide</b>	isosorbide dinitrate	ISDN, Isordil				√	
	isosorbide mononitrate	ISMN, Imdur				√	
	nitroglycerin patch	Nitro-Dur, Trinipatch, Minitran				√	
<b>Alpha-2 Agonist</b>	clonidine	Catapres, Iopidine				√	
	methyldopa	Aldomet				√	
<b>Antiarrhythmics</b>	amiodarone	Cordarone				√	
	dronedarone	Multaq				√	
	flecainide	Tambocor				√	
	Propafenone	Rythmol				√	
<b>Statins</b>	atorvastatin	Lipitor				√	
	fluvastatin	Lescol				√	
	lovastatin	Mevacor				√	
	pravastatin	Pravachol				√	
	rosuvastatin	Crestor				√	
	simvastatin	Zocor				√	
<b>Non-Statin Lipid Lowering Agents</b>	ezetimibe	Ezetrol		Last dose 2 days before date of surgery	X		
	cholestyramine	Olestryr		Last dose 2 days before date of surgery	X		
	alirocumab	Praluent		Last dose 2 days before date of surgery	X		
	evolocumab	Repatha		Last dose 2 days before date of surgery	X		



Medication Class	Generic Name	Brand Name	Patient Specific Order may be required	Take last dose ___ days before date of surgery	Do NOT take on DAY of surgery	Continue including DAY of surgery	Comments
	fenofibrate	Lipidil		Last dose 2 days before date of surgery	X		
	gemfibrozil	Lopid		Last dose 2 days before date of surgery	X		
	nicotinic acid	Niacin		Last dose 2 days before date of surgery	X		
	icosapent ethyl	Vascepa		Last dose 8 days before date of surgery	X		
<b>Others</b>	ranolazine	Corzyna				√	
	ivabradine	Lancora				√	
<b>Endocrine Medications</b>							
<b>Oral Hypoglycemics</b>	gliclazide	Diamicron			X		
	glyburide	Diabeta			X		
	repaglinide	Gluconorm			X		
	metformin	Glucophage, Glumetza			X		
	pioglitazone	Actos			X		
	rosiglitazone	Avandia			X		
	sitagliptin	Januvia			X		
	saxagliptin	Onglyza			X		
	linagliptin	Trajenta			X		
	acarbose	Glucobay			X		
<b>Sodium -glucose Cotransporter 2 (SGLT2) inhibitors</b>	empagliflozin	Jardiance		Last dose 4 days before date of surgery	X		
	canagliflozin	Invokana		Last dose 4 days before date of surgery	X		
	dapagliflozin	Forxiga		Last dose 4 days before date of surgery	X		
<b>Glucagon-like-peptide-1 (GLP-1) agonist</b>	liraglutide	Victoza		Last dose 2 days before date of surgery	X		
	lixisenatide	Adlyxine		Last dose 2 days before date of surgery	X		
	dulaglutide	Trulicity		Ideally, last dose 8 days before surgery **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled	X		
	semaglutide	Ozempic, Rybelsus, Wegovy		Ideally, last dose 8 days before surgery **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled	X		
	tirzepatide	Mounjaro		Ideally, last dose 8 days before surgery **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled	X		

Medication Class	Generic Name	Brand Name	Patient Specific Order may be required	Take last dose ___ days before date of surgery	Do NOT take on DAY of surgery	Continue including DAY of surgery	Comments
Insulin Rapid Acting	aspart	Novo-Rapid, Trurapi	Anesthesiology / Endocrinology	See <a href="#">Section 3. Preoperative Management of Insulin</a>			
	glulisine	Apidra	Anesthesiology / Endocrinology	See <a href="#">Section 3. Preoperative Management of Insulin</a>			
	lispro	Humalog, Admelog	Anesthesiology / Endocrinology	See <a href="#">Section 3. Preoperative Management of Insulin</a>			
Insulin Fast Acting	regular	Humulin R, Novolin, Toronto, Entuzity	Anesthesiology / Endocrinology	See <a href="#">Section 3. Preoperative Management of Insulin</a>			
Insulin Intermediate acting	NPH	Humulin N, Novolin NPH	Anesthesiology / Endocrinology	See <a href="#">Section 3. Preoperative Management of Insulin</a>			
Insulin Mixed		Humulin 30/70, Humalog Mix, Novolin 30/70, NovoMix	Anesthesiology / Endocrinology	See <a href="#">Section 3. Preoperative Management of Insulin</a>			
Insulin Long Acting	detemir	Levemir	Anesthesiology / Endocrinology	See <a href="#">Section 3. Preoperative Management of Insulin</a>			
	glargine	Basaglar, Lantus, Toujeo	Anesthesiology / Endocrinology	See <a href="#">Section 3. Preoperative Management of Insulin</a>			
Insulin Ultra Long Acting	degludec	Tresiba	Anesthesiology / Endocrinology	See <a href="#">Section 3. Preoperative Management of Insulin</a>			
Glucocorticoids (systemic)	prednisone	Winpred				✓	
	dexamethasone	Decadron				✓	
	hydrocortisone	Cortef				✓	
To treat Hyperthyroidism	methimazole	Tapazole				✓	
	propylthiouracil	Propyl-Thyracil				✓	
To treat Hypothyroidism	levothyroxine	Synthroid, Eltroxin				✓	
	liothyronine	Cytomel				✓	
	dessicated thyroid	Thyroid				✓	

Medication Class	Generic Name	Brand Name	Patient Specific Order may be required	Take last dose ___ days before date of surgery	Do NOT take on DAY of surgery	Continue including DAY of surgery	Comments
Oral contraceptives - low to moderate risk of VTE <i>*default option, unless deemed high risk by Anesthesiologist</i>						✓ (with appropriate perioperative VTE prophylaxis)	If interruption to daily administration of oral contraceptives, patient should use alternative method of birth control up until 1 week after restarting
Oral contraceptives - high risk of venous thromboembolism (VTE)				Last dose 30 days before date of surgery **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled	X		If interruption to daily administration of oral contraceptives, patient should use alternative method of birth control up until 1 week after restarting
Post Menopausal Hormone Replacement Therapy - low to moderate risk of VTE <i>*default option, unless deemed high risk by Anesthesiologist</i>						✓ (with appropriate perioperative VTE prophylaxis)	
Post Menopausal Hormone Replacement Therapy - high risk of VTE				Last dose 15 days before date of surgery **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled	X		
Selective Estrogen Receptor Modulators (SERM)	tamoxifen (low-moderate risk of VTE) <i>*default option, unless deemed high risk by Anesthesiologist</i>	Nolvadex	Consider Oncology Consult			✓ (with appropriate perioperative VTE prophylaxis)	
	tamoxifen (high risk of VTE)	Nolvadex	Consider Oncology Consult	Last dose 15 days before date of surgery **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled	X		
	raloxifene (low-moderate risk of VTE) <i>*default option, unless deemed high risk by Anesthesiologist</i>	Evista				✓ (with appropriate perioperative VTE prophylaxis)	
	raloxifene (high risk of VTE)	Evista		Last dose 4 days before date of surgery **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled	X		

Medication Class	Generic Name	Brand Name	Patient Specific Order may be required	Take last dose ___ days before date of surgery	Do NOT take on DAY of surgery	Continue including DAY of surgery	Comments
<b>Bisphosphonates</b>	alendronate	Fosamax			X		
	risedronate	Actonel			X		
	zoledronic acid	Aclasta, Zometa			X		
<b>RANKL inhibitor</b>	denosumab	Prolia			X		
<b>PTH Analogue</b>	teriparatide	Forteo, Osnuvo			X		
<b>Pain, Addictions Management Medications</b>							
	acetaminophen	Tylenol				√	
<b>Buprenorphine</b>	buprenorphine - naloxone	Suboxone	Anesthesiology / CPAS		X	√ if Day Care surgery (same-day discharge)	if surgery is at UBCH OR, see "UBCH OR Suite Patient Selection Criteria: Opioid Tolerance"
	buprenorphine	Sublocade	Anesthesiology / CPAS			√	if surgery is at UBCH OR, see "UBCH OR Suite Patient Selection Criteria: Opioid Tolerance" <b>300 mg dose = buprenorphine &gt; 12 mg/24h</b>
	buprenorphine	Butrans	Anesthesiology / CPAS			√	if surgery is at UBCH OR, see "UBCH OR Suite Patient Selection Criteria: Opioid Tolerance"
<b>Naltrexone</b>	naltrexone <i>less than 25 mg</i>	Revia	Anesthesiology / CPAS		X		Clinician MUST provide specific instructions to patient
	naltrexone <i>25 - 49 mg</i>	Revia	Anesthesiology / CPAS	Last dose 2 days before date of surgery	X		Clinician MUST provide specific instructions to patient
	naltrexone <i>above 50 mg</i>	Revia	Anesthesiology / CPAS	Last dose 3 days before date of surgery	X		Clinician MUST provide specific instructions to patient
<b>Opioids (chronic)</b>	codeine					√	
	diacetylmorphine	Heroin	Anesthesiology / CPAS			√	if surgery is at UBCH OR, see "UBCH OR Suite Patient Selection Criteria: Opioid Tolerance"
	fentanyl	Duragesic	Anesthesiology			√	if surgery is at UBCH OR, see "UBCH OR Suite Patient Selection Criteria: Opioid Tolerance"
	hydromorphone	Dilaudid	Anesthesiology			√	if surgery is at UBCH OR, see "UBCH OR Suite Patient Selection Criteria: Opioid Tolerance"
	morphine	MS-IR, Statex, M-Eslon, MS Contin	Anesthesiology			√	if surgery is at UBCH OR, see "UBCH OR Suite Patient Selection Criteria: Opioid Tolerance"
	morphine	Kadian	Anesthesiology / CPAS			√	if surgery is at UBCH OR, see "UBCH OR Suite Patient Selection Criteria: Opioid Tolerance"

Medication Class	Generic Name	Brand Name	Patient Specific Order may be required	Take last dose ___ days before date of surgery	Do NOT take on DAY of surgery	Continue including DAY of surgery	Comments
	oxycodone	Oxy-IR, Supeudol, OxyNEO	Anesthesiology			✓	if surgery is at UBCH OR, see "UBCH OR Suite Patient Selection Criteria: Opioid Tolerance"
	tapentadol	Nucynta	Anesthesiology			✓	if surgery is at UBCH OR, see "UBCH OR Suite Patient Selection Criteria: Opioid Tolerance"
	tramadol	Tridural, Ralivia, Zytram	Anesthesiology			✓	if surgery is at UBCH OR, see "UBCH OR Suite Patient Selection Criteria: Opioid Tolerance"
	methadone	Metadol, Methadose	Anesthesiology / CPAS			✓	if surgery is at UBCH OR, see "UBCH OR Suite Patient Selection Criteria: Opioid Tolerance"
	meperidine	Demerol	Anesthesiology			✓	
<b>COX-2 NSAIDs</b>	celecoxib	Celebrex			X		
<b>NSAIDs</b>	ibuprofen	Advil, Motrin		Last dose 2 days before date of surgery	X		
	diclofenac	Voltaren, Arthrotec		Last dose 4 days before date of surgery	X		
	flubiprofen	Ansaid		Last dose 4 days before date of surgery	X		
	indomethacin	Indocid		Last dose 4 days before date of surgery	X		
	ketoprofen	Orudis		Last dose 4 days before date of surgery	X		
	ketorolac	Toradol		Last dose 4 days before date of surgery	X		
	mefenamic acid	Ponstan		Last dose 4 days before date of surgery	X		
	meloxicam	Mobicox		Last dose 4 days before date of surgery	X		
	nabumetone	Relafen		Last dose 4 days before date of surgery	X		
	naproxen	Aleve, Naproxyn		Last dose 4 days before date of surgery	X		
	sulindac	Clinoril		Last dose 4 days before date of surgery	X		

Medication Class	Generic Name	Brand Name	Patient Specific Order may be required	Take last dose ___ days before date of surgery	Do NOT take on DAY of surgery	Continue including DAY of surgery	Comments
<b>Immunosuppressants , Anti-Rheumatic Agents</b>							
<b>non-biologic DMARDs</b>	methotrexate	Amethopterin				√	
	leflunomide	Arava				√	
	hydroxychloroquine	Plaquenil				√	
	sulfasalazine	Salazopyrin				√	
	azathioprine	Imuran		Not-severe SLE: ideally last dose 8 days before surgery		√ (severe SLE)	Consult prescriber if used for SLE and to undergo Orthopedic surgery
	mercaptopurine	Purinethol				√	
	apremilast	Otezla				√	
<b>TNF inhibitors</b>	adalimumab	Humira, Amgevita, Hadlima, Hulio, Hyrimoz, Idacio		Ideally, stop for 1 dosing interval before surgery  **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled	<b>X</b> <i>(Default order)</i>		Consult prescriber if used for Crohn's and to undergo <u>GI surgery</u> or if used for inflammatory joint disorder and to undergo <u>Orthopedic surgery</u>
	certolizumab pegol	Cimzia		Ideally, stop for 1 dosing interval before surgery  **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled	<b>X</b> <i>(Default order)</i>		Consult prescriber if used for Crohn's and to undergo <u>GI surgery</u> or if used for inflammatory joint disorder and to undergo <u>Orthopedic surgery</u>
	etanercept	Enbrel, Brenzys, Erelzi		Ideally, stop for 1 dosing interval before surgery  **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled	<b>X</b> <i>(Default order)</i>		Consult prescriber if used for inflammatory joint disorder and to undergo <u>Orthopedic surgery</u>
	golimumab	Simponi		Ideally, stop for 1 dosing interval before surgery  **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled	<b>X</b> <i>(Default order)</i>		Consult prescriber if used for Crohn's and to undergo <u>GI surgery</u> or if used for inflammatory joint disorder and to undergo <u>Orthopedic surgery</u>
	infliximab	Remicade, Inflixtra, Renflexis, Avsola		Ideally, stop for 1 dosing interval before surgery  **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled	<b>X</b> <i>(Default order)</i>		Consult prescriber if used for Crohn's and to undergo <u>GI surgery</u> or if used for inflammatory joint disorder and to undergo <u>Orthopedic surgery</u>
<b>T-cell inhibitor</b>	abatacept	Orencia		Ideally, stop for 1 dosing interval before surgery  **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled	<b>X</b> <i>(Default order)</i>		Consult prescriber if used for inflammatory joint disorder and to undergo <u>Orthopedic surgery</u>

Medication Class	Generic Name	Brand Name	Patient Specific Order may be required	Take last dose ___ days before date of surgery	Do NOT take on DAY of surgery	Continue including DAY of surgery	Comments
<b>B-cell inhibitor</b>	rituximab	Rituxan, Truxima, Riximyo, Ruxience		stop for 1 dosing interval before surgery (if dosed every 6 months, would not hold dose)	<b>X</b> (Default order)		Consult prescriber if used for inflammatory joint disorder and to undergo <u>Orthopedic surgery</u> . <b>For severe SLE</b> , medication can be continued and recommend planning surgery in the last month of dosing cycle.
	belimumab	Benlysta		Ideally, stop for 1 dosing interval before surgery **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled	<b>X</b> (Default order)		Consult prescriber if used for inflammatory joint disorder and to undergo <u>Orthopedic surgery</u> . <b>For severe SLE</b> , medication can be continued.
<b>JAK inhibitors</b>	tofacitinib	Xeljanz		Ideally, last dose 4 days before date of surgery **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled	<b>X</b> (Default order)		increased infection and thrombotic risk
	baricitinib	Olumiant		Ideally, last dose 4 days before date of surgery **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled	<b>X</b> (Default order)		increased infection and thrombotic risk
	upadacitinib	Rinvoq		Ideally, last dose 4 days before date of surgery **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled	<b>X</b> (Default order)		increased infection and thrombotic risk
<b>Interleukin (IL)-1 Antagonist</b>	anakinra	Kineret		Ideally, stop for 1 dosing interval before surgery **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled	<b>X</b> (Default order)		Consult prescriber if used for inflammatory joint disorder and to undergo <u>Orthopedic surgery</u>
<b>Interleukin (IL)-6 Antagonist</b>	sarilumab	Kevzara		Ideally, stop for 1 dosing interval before surgery **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled	<b>X</b> (Default order)		Consult prescriber if used for inflammatory joint disorder and to undergo <u>Orthopedic surgery</u>
	tocilizumab	Actemra		Ideally, stop for 1 dosing interval before surgery **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled	<b>X</b> (Default order)		Consult prescriber if used for inflammatory joint disorder and to undergo <u>Orthopedic surgery</u>
<b>Interleukin (IL)-12/23 Antagonist</b>	ustekinumab	Stelara		Ideally, stop for 1 dosing interval before surgery **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled	<b>X</b> (Default order)		Consult prescriber if used for Crohn's and to undergo <u>GI surgery</u> or if used for inflammatory joint disorder and to undergo <u>Orthopedic surgery</u>

Medication Class	Generic Name	Brand Name	Patient Specific Order may be required	Take last dose ___ days before date of surgery	Do NOT take on DAY of surgery	Continue including DAY of surgery	Comments
<b>Interleukin (IL)-23 Antagonist</b>	guselkumab	Tremfya		Ideally, stop for 1 dosing interval before surgery **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled	<b>X</b> (Default order)		Consult prescriber if used for inflammatory joint disorder and to undergo <u>Orthopedic surgery</u>
<b>Interleukin (IL)-17 Antagonist</b>	secukinumab	Cosentyx		Ideally, stop for 1 dosing interval before surgery **Scheduled surgeries should not be cancelled if suggested stop duration is	<b>X</b> (Default order)		Consult prescriber if used for inflammatory joint disorder and to undergo <u>Orthopedic surgery</u>
	ixekizumab	Taltz		Ideally, stop for 1 dosing interval before surgery **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled	<b>X</b> (Default order)		Consult prescriber if used for inflammatory joint disorder and to undergo <u>Orthopedic surgery</u>
<b>Interferon Receptor Antagonist</b>	anifrolumab	Saphnelo			<b>√</b>		
<b>Other</b>	vedolizumab	Entyvio		Ideally, stop for 1 dosing interval before surgery **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled	<b>X</b> (Default order)		Consult prescriber if used for Crohn's and to undergo <u>GI surgery</u>
<b>Immunosuppressants</b>	tacrolimus	Prograf, Advagraf, Envarsus	For non-transplant patients, consult prescriber	Not-severe SLE: ideally last dose 8 days before surgery		<b>√</b> (severe SLE, SOT)	Consult prescriber if used for SLE and to undergo Orthopedic surgery
	cyclosporine	Neoral	For non-transplant patients, consult prescriber	Not-severe SLE: ideally last dose 8 days before surgery		<b>√</b> (severe SLE, SOT)	Consult prescriber if used for SLE and to undergo Orthopedic surgery
	voclosporin	Lupkynis				<b>√</b>	
	mycophenolate	Cellcept, Myfortic	For non-transplant patients, consult prescriber	Not-severe SLE: ideally last dose 8 days before surgery		<b>√</b> (severe SLE, SOT)	Consult prescriber if used for SLE and to undergo Orthopedic surgery
	sirolimus	Rapmune	Consult prescriber	Last dose 15 days before date of surgery	<b>X</b>		sirolimus associated with significant wound healing impairment. Start 1 month after surgery



Medication Class	Generic Name	Brand Name	Patient Specific Order may be required	Take last dose ___ days before date of surgery	Do NOT take on DAY of surgery	Continue including DAY of surgery	Comments
<b>Gastrointestinal Medications</b>							
<b>Proton Pump Inhibitors</b>	dexlansoprazole	Dexilant				✓	
	esomeprazole	Nexium				✓	
	lansoprazole	Prevacid				✓	
	omeprazole	Losec				✓	
	pantoprazole	Pantoloc, Tecta				✓	
	rabeprazole	Pariet				✓	
<b>H2-Receptor Antagonists</b>	cimetidine	Tagamet			X		cimetidine has potential for multiple drug interactions
	famotidine	Pepcid				✓	
	ranitidine	Zantac				✓	
<b>Aminosalicylates</b>	mesalamine , 5-ASA	Asacol, Pentasa, Mezera, Salofalk, Mezavant			X		
	olsalazine	Dipentum			X		
<b>Attention Deficit Hyperactivity disorder (ADHD) medications</b>							
<b>Stimulants</b>	amphetamine	Adderall			X		
	dextroamphetamine	Dexedrine			X		
	lisdexamfetamine	Vyvanse			X		
	methylphenidate	Ritalin, Biphentin, Concerta			X		
	modafinil	Allertec			X		
<b>Selective Norepinephrine Reuptake Inhibitor</b>	atomoxetine	Strattera			X		
<b>Migraine Medications</b>							
<b>Serotonin Agonist</b>	almotriptan	Axert		Last dose 2 days before date of surgery	X		
	eletriptan	Relpax		Last dose 2 days before date of surgery	X		
	frovatriptan	Frova		Last dose 2 days before date of surgery	X		
	naratriptan	Amerge		Last dose 2 days before date of surgery	X		
	rizatriptan	Maxalt		Last dose 2 days before date of surgery	X		

Medication Class	Generic Name	Brand Name	Patient Specific Order may be required	Take last dose ___ days before date of surgery	Do NOT take on DAY of surgery	Continue including DAY of surgery	Comments
	sumatriptan	Imitrex		Last dose 2 days before date of surgery	X		
	zolmitriptan	Zomig		Last dose 2 days before date of surgery	X		
<b>Anti-Parkinsonian</b>							
<b>Dopamine Precursor</b>	levodopa - carbidopa	Sinemet				√	
	levodopa - carbidopa - entacapone	Stalevo				√	
	levodopa - benserazide	Prolopa				√	
<b>Catechol-O-methyltransferase (COMT) Inhibitor</b>	entacapone	Comtan				√	
<b>Dopamine Agonist</b>	pramipexole	Mirapex				√	
	ropinirole	Requip				√	
	bromocriptine	Parlodel				√	
	carbegoline	Dostinex				√	
	rotigotine	Neupro				√	
<b>Anticholinergics</b>	benztropine	Cogentin				√	
	ethopropazine	Parsitan				√	
	procyclidine	Kemadrin				√	
	trihexyphenidyl	Artane				√	
<b>N-methyl-D-aspartate (NMDA) Antagonist</b>	amantadine	Symmetrel				√	
<b>Irreversible Monamine Oxidase B (MAO-B) Inhibitor</b>	selegiline	Eldepryl		Medication can be continued, provided that interacting medications are avoided (see comments).		√	<p><b>Opioids with serotonin toxicity risk with MAO-I:</b> meperidine, tramadol, methadone, tapentadol, dextromethorphan, pentazocine</p> <p>Safe opioid alternatives: oxycodone, fentanyl, morphine, codeine, buprenorphine</p> <p><b>Vasopressors that are contraindicated with MAO-I:</b> ephedrine, pseudoephedrine, metaraminol, IV dopamine, topical cocaine</p>
	rasagiline	Azilect		Medication can be continued, provided that interacting medications are avoided (see comments).		√	<p>Safe alternatives when titrated to effect (consider lower initial dose): epinephrine, norepinephrine, phenylephrine, isoproterenol, midodrine, dobutamine</p> <p><b>Methylene blue must be avoided with MAO-I.</b></p>

Medication Class	Generic Name	Brand Name	Patient Specific Order may be required	Take last dose ___ days before date of surgery	Do NOT take on DAY of surgery	Continue including DAY of surgery	Comments
<b>Antiepileptics</b>							
	carbamazepine	Tegretol				√	
	oxcarbazepine	Trileptal				√	
	eslicarbazepine	Aptiom				√	
	clobazam	Frisium				√	
	divalproex	Epival				√	
	valproic acid	Depakene				√	
	ethosuximide	Zarotin				√	
	gabapentin	Neurotin				√	
	pregabalin	Lyrica				√	
	lacosamide	Vimpat				√	
	lamotrigine	Lamictal				√	
	levetiracetam	Keppra				√	
	brivaracetam	Brivlera				√	
	perampanel	Fycompa				√	
	phenobarbital	Phenobarb				√	
	phenytoin	Dilantin				√	
	fosphenytoin	Cerebyx				√	
	primidone	Mysoline				√	
	topiramate	Topamax				√	
	vigabatrin	Sabril				√	
<b>Mood Stabilizing Agent</b>							
	lithium	Carbolith, Duralith, Lithmax				√	
<b>Benzodiazepine</b>							
<b>Short-Acting</b>	triazolam	Halcion				√	
<b>Intermediate-Acting</b>	alprazolam	Xanax				√	
	bromazepam	Lectopam				√	
	clonazepam	Rivotril				√	
	lorazepam	Ativan				√	
	nitrazepam	Mogadon				√	
	oxazepam	Serax				√	
	temazepam	Restoril				√	
<b>Long-Acting</b>	chlordiazepoxide	Librium				√	
	diazepam	Valium				√	
	flurazepam	Dalmane				√	
<b>Buspirone</b>	buspirone	Buspar				√	
<b>Z-drugs</b>	eszopiclone	Lunesta				√	
	zopiclone	Imovane				√	
	zolpidem	Sublinox				√	
<b>Antipsychotics</b>							
	aripiprazole	Abilify				√	
	brexpiprazole	Rexulti				√	
	clozapine	Clozaril				√	
	risperidone	Risperdal				√	
	paliperidone	Invega				√	
	olanzapine	Zyprexa				√	
	quetiapine	Seroquel				√	

Medication Class	Generic Name	Brand Name	Patient Specific Order may be required	Take last dose ___ days before date of surgery	Do NOT take on DAY of surgery	Continue including DAY of surgery	Comments
	lurasidone	Latuda				√	
	asenapine	Saphris				√	
	ziprasidone	Zeldox				√	
	haloperidol	Haldol				√	
	flupenthixol	Fluanxol				√	
	fluphenazine	Moditen				√	
	loxapine	Xylac, Loxapac				√	
	zuclopenthixol	Clopixol				√	
	chlorpromazine	Largactil				√	
	methotrimeprazine	Nozinan				√	
<b>Alzheimer's Medications</b>							
<b>Acetylcholinesterase Inhibitors</b>	donepezil	Aricept				√	
	galantamine	Reminyl				√	
	rivastigmine	Exelon				√	
<b>NMDA Antagonist</b>	memantine	Ebixa				√	
<b>Myasthenia Gravis Medications</b>							
<b>Acetylcholinesterase Inhibitors</b>	pyridostigmine	Mestinon				√	
	neostigmine	Prostigmin				√	
<b>Antidepressants</b>							
<b>Selective Serotonin Reuptake Inhibitors (SSRI)</b>	citalopram	Celexa				√	
	escitalopram	Cipralex				√	
	fluoxetine	Prozac				√	
	fluvoxamine	Luvox				√	
	paroxetine	Paxil				√	
	sertraline	Zoloft				√	
<b>Serotonin Norepinephrine Reuptake Inhibitors (SNRI)</b>	venlafaxine	Effexor				√	
	desvenlafaxine	Pristiq				√	
	levomilnacipran	Fetzima				√	
	duloxetine	Cymbalta				√	
<b>Norepinephrine Dopamine Reuptake Inhibitor</b>	bupropion	Wellbutrin, Zyban				√	
<b>Serotonin Modulators</b>	vilazodone	Viiibryd				√	
	vortioxetine	Trintellix				√	

Medication Class	Generic Name	Brand Name	Patient Specific Order may be required	Take last dose ___ days before date of surgery	Do NOT take on DAY of surgery	Continue including DAY of surgery	Comments
Tricyclic Antidepressants (TCA)	amitriptyline	Elavil				√	
	clomipramine	Anafranil				√	
	doxepin	Sinequan				√	
	imipramine	Tofranil				√	
	desipramine	Norpramin				√	
	nortriptyline	Aventyl				√	
Others	trazodone	Desyrel				√	
	mirtazapine	Remeron				√	
Reversible Monoamine Oxidase Inhibitors (MAO-I)	moclobemide	Manerix	Anesthesiology	Medication can be continued, provided that interacting medications are avoided (see comments).		√	<p><b>Opioids with serotonin toxicity risk with MAO-I:</b> meperidine, tramadol, methadone, tapentadol, dextromethorphan, pentazocine</p> <p>Safe opioid alternatives: oxycodone, fentanyl, morphine, codeine, buprenorphine</p>
Irreversible Monoamine Oxidase Inhibitors (MAO-I)	phenelzine	Nardil	Anesthesiology	Medication can be continued, provided that interacting medications are avoided (see comments).		√	<p><b>Vasopressors that are contraindicated with MAO-I:</b> ephedrine, pseudoephedrine, metaraminol, IV dopamine, topical cocaine</p> <p>Safe alternatives when titrated to effect (consider lower initial dose): epinephrine, norepinephrine, phenylephrine, isoproterenol, midodrine, dobutamine</p>
	tranylcypromine	Parnate	Anesthesiology	Medication can be continued, provided that interacting medications are avoided (see comments).		√	<b>Methylene blue must be avoided with MAO-I.</b>

Medication Class	Generic Name	Brand Name	Patient Specific Order may be required	Take last dose ___ days before date of surgery	Do NOT take on DAY of surgery	Continue including DAY of surgery	Comments
<b>Pulmonary Medications</b>							
<b>Inhaled Beta-Agonists</b>	salbutamol	Ventolin				√	
	terbutaline	Bricanyl				√	
	salmeterol	Serevent				√	
	formoterol	Oxeze				√	
<b>Anticholinergics</b>	ipratropium	Atrovent				√	
	tiotropium	Spiriva				√	
<b>Inhaled Corticosteroids</b>	beclomethasone	QVAR				√	
	budesonide	Pulmicort				√	
	ciclesonide	Alvesco				√	
	fluticasone propionate	Flovent, Aermony				√	
	fluticasone furoate	Arnuity				√	
	mometasone	Asmanex				√	
<b>Beta Agonist - Anticholinergic combination</b>	ipratropium - albuterol	Combivent				√	
<b>Beta Agonist - Corticosteroid combination</b>	formoterol - budesonide	Symbicort				√	
	formoterol - mometasone	Zenhale				√	
	salmeterol - fluticasone	Advair, Arbesda				√	
	vilanterol - fluticasone	Breo				√	
	indacaterol - mometasone	Aectura				√	
<b>Triple combination</b>	glycopyrronium - indacaterol - mometasone	Energair				√	
	umeclidinium - vilanterol - fluticasone	Trelegy				√	
<b>Leukotriene Receptor Antagonist</b>	montelukast	Singulair				√	
<b>Theophylline</b>	theophylline	Uniphyll, Theo		If evening dose, last dose 2 days before date of surgery; if morning dose, last dose 1 day before date of surgery	X		
<b>Anti-IgE agent</b>	omalizumab	Xolair				√	
<b>Interleukin (IL)-4 Antagonist</b>	dupilumab	Dupixent				√	
<b>Interleukin (IL)-5 Antagonist</b>	mepolizumab	Nucala				√	
	reslizumab	Cinqair				√	
	benralizumab	Fasenra				√	

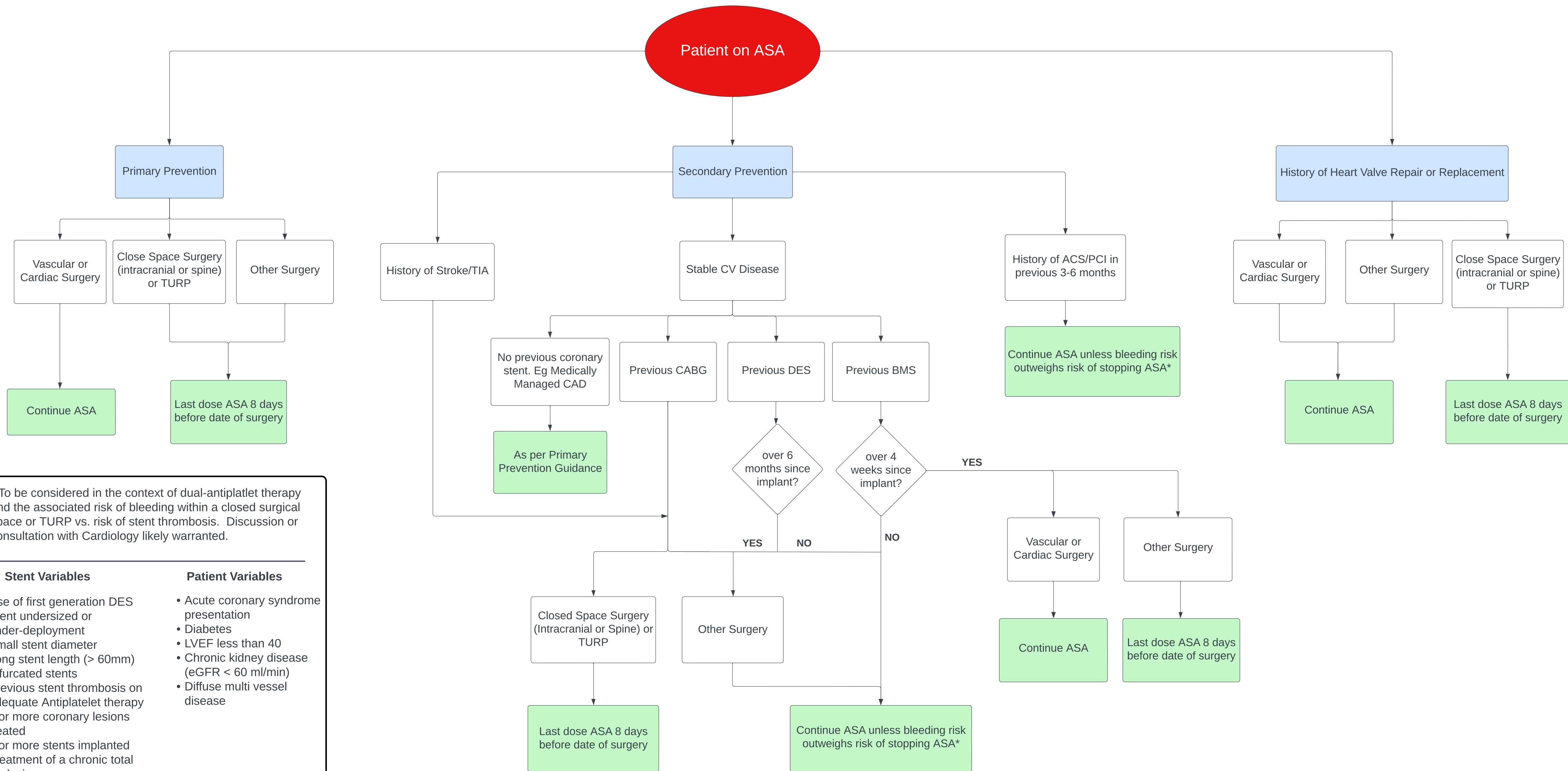
Medication Class	Generic Name	Brand Name	Patient Specific Order may be required	Take last dose ___ days before date of surgery	Do NOT take on DAY of surgery	Continue including DAY of surgery	Comments
<b>Phosphodiesterase (PDE)-5 inhibitor</b>							
	sildenafil	Viagra, Revatio	For pulmonary hypertension patient, consult anesthesiology	For erectile dysfunction, and benign prostatic hyperplasia, do not use for 3 days before date of surgery	X (ED, BPH)	√ (pulmonary hypertension)	
	tadalafil	Cialis, Adcirca	For pulmonary hypertension patient, consult anesthesiology	For erectile dysfunction, and benign prostatic hyperplasia, do not use for 3 days before date of surgery	X (ED, BPH)	√ (pulmonary hypertension)	
	vardenafil	Levitra, Staxyn	For pulmonary hypertension patient, consult anesthesiology	For erectile dysfunction, and benign prostatic hyperplasia, do not use for 3 days before date of surgery	X (ED, BPH)	√ (pulmonary hypertension)	
<b>Gout Medications</b>							
	allopurinol	Zyloprim				√	
	febuxostat	Uloric				√	
	colchicine				X (if taking chronically)		potential for muscle weakness and neuropathy, especially in the setting of renal impairment
<b>Antihistamines</b>							
	chlorpheniramine	Chlortripolon				√	
	diphenhydramine	Benadryl				√	
	dimenhydrinate	Gravol				√	
	cetirizine	Reactine				√	
	fexofenadine	Allegra				√	
	loratadine	Claritin				√	
	desloratadine	Aerius				√	
<b>Muscle Relaxants</b>							
	baclofen	Lioresal				√	
	cyclobenzaprine	Flexeril				√	
	methocarbamol	Robaxin				√	some methocarbamol products may contain ibuprofen or ASA
	tizanidine	Zanaflex				√	
<b>Iron</b>							
	ferrous gluconate	Fergon			X		
	ferrous sulfate	Fer-In-Sol			X		
	ferrous fumarate	Palafer			X		
	polysaccharide iron complex	FeraMax, Triferexx, Polyride Fe			X		
	heme iron polypeptide	Proferrin			X		

Medication Class	Generic Name	Brand Name	Patient Specific Order may be required	Take last dose ___ days before date of surgery	Do NOT take on DAY of surgery	Continue including DAY of surgery	Comments
<b>Antiretrovirals</b>							
<b>Antiretrovirals / HIV Medications</b>						√	if clinically necessary, stopping Antiretroviral Medications for a few days should not have a deleterious impact on their effectiveness
<b>Elvitegravir / Cobicistat</b>			Anesthesiology			√	Midazolam is CONTRAINDICATED with this medication
<b>Protease Inhibitors</b>						√	
<b>Benign Prostatic Hypertrophy Medications</b>							
<b>Alpha-1 Antagonists</b>	doxazosin	Cardura				√	
	prazosin	Minipress				√	
	terazosin	Hytrin				√	
	alfuzosin	Xatral				√	
	tamsulosin	Flomax				√	
	silodosin	Rapaflo				√	
<b>5-Alpha Reductase Inhibitors</b>	dutasteride	Avodart				√	
	finasteride	Proscar				√	
<b>Bladder Medications</b>							
	oxybutynin	Ditropan				√	
	fesoterodine	Toviaz				√	
	solifenacin	Vesicare				√	
	tolterodine	Detrol				√	
	mirabegron	Myrbetriq				√	
	darifenacin	Enablex				√	
<b>Cancer Medications</b>							
<b>Antiangiogenic Tyrosine Kinase Inhibitors</b>	sunitinib	Sutent	consult oncologist before stopping	Last dose 8 days before date of surgery **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled		X	Impaired wound healing, restart when adequate wound healing has occurred.
	sorafenib	Nexavar	consult oncologist before stopping	Last dose 8 days before date of surgery **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled		X	Impaired wound healing, restart when adequate wound healing has occurred.
	selpercatinib	Retevmo	consult oncologist before stopping	Last dose 8 days before date of surgery **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled		X	Impaired wound healing, restart when adequate wound healing has occurred.
	lenvatinib	Lenvima	consult oncologist before stopping	Last dose 8 days before date of surgery **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled		X	Impaired wound healing, restart when adequate wound healing has occurred.



Medication Class	Generic Name	Brand Name	Patient Specific Order may be required	Take last dose ___ days before date of surgery	Do NOT take on DAY of surgery	Continue including DAY of surgery	Comments
	ponatinib	Iclusig	consult oncologist before stopping	Last dose 8 days before date of surgery **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled		X	Impaired wound healing, restart when adequate wound healing has occurred.
	pazopanib	Votrient	consult oncologist before stopping	Last dose 8 days before date of surgery **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled		X	Impaired wound healing, restart when adequate wound healing has occurred.
	regorafenib	Stivarga	consult oncologist before stopping	Last dose 15 days before date of surgery **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled		X	Impaired wound healing, restart when adequate wound healing has occurred.
	ripretinib	Qinlock	consult oncologist before stopping	Last dose 8 days before date of surgery **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled		X	Impaired wound healing, restart when adequate wound healing has occurred.
	vandetanib	Caprelsa	consult oncologist before stopping	Last dose 8 days before date of surgery **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled		X	Impaired wound healing, restart when adequate wound healing has occurred.
	cabozantinib	Cabometyx	consult oncologist before stopping	Last dose 29 days before date of surgery **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled		X	Impaired wound healing, restart when adequate wound healing has occurred.
	axitinib	Inlyta	consult oncologist before stopping	Last dose 3 days before date of surgery **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled		X	Impaired wound healing, restart when adequate wound healing has occurred.
<b>Cyclin-dependent Kinase (CDK) 4/6 Inhibitors</b>	palbociclib	Ibrance	consult oncologist before stopping	Last dose 8 days before date of surgery **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled		X	Impaired wound healing, restart when adequate wound healing has occurred.
	ribociclib	Kisqali	consult oncologist before stopping	Last dose 8 days before date of surgery **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled		X	Impaired wound healing, restart when adequate wound healing has occurred.

Medication Class	Generic Name	Brand Name	Patient Specific Order may be required	Take last dose ___ days before date of surgery	Do NOT take on DAY of surgery	Continue including DAY of surgery	Comments
<b>Antiangiogenic Recombinant Humanized Monoclonal Antibody</b>	bevacizumab	Avastin	consult oncologist before stopping	Last dose 29 days before date of surgery **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled		<b>X</b>	Impaired wound healing, restart when adequate wound healing has occurred.
<b>Bruton's Tyrosine Kinase (BTK) Inhibitor</b>	acalabrutinib	Calquence	consult oncologist before stopping	Last dose 8 days before date of surgery **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled		<b>X</b>	Increased bleeding risk
	zanubrutinib	Brukinsa	consult oncologist before stopping	Last dose 8 days before date of surgery **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled		<b>X</b>	Increased bleeding risk
	ibrutinib	Imbruvica	consult oncologist before stopping	Last dose 8 days before date of surgery **Scheduled surgeries should not be cancelled if suggested stop duration is not fulfilled		<b>X</b>	Increased bleeding risk



\* To be considered in the context of dual-antiplatelet therapy and the associated risk of bleeding within a closed surgical space or TURP vs. risk of stent thrombosis. Discussion or consultation with Cardiology likely warranted.

Stent Variables	Patient Variables
<ul style="list-style-type: none"> <li>• Use of first generation DES</li> <li>• Stent undersized or under-deployment</li> <li>• Small stent diameter</li> <li>• Long stent length (&gt; 60mm)</li> <li>• Bifurcated stents</li> <li>• Previous stent thrombosis on adequate Antiplatelet therapy</li> <li>• 3 or more coronary lesions treated</li> <li>• 3 or more stents implanted</li> <li>• Treatment of a chronic total occlusion</li> </ul>	<ul style="list-style-type: none"> <li>• Acute coronary syndrome presentation</li> <li>• Diabetes</li> <li>• LVEF less than 40</li> <li>• Chronic kidney disease (eGFR &lt; 60 ml/min)</li> <li>• Diffuse multi vessel disease</li> </ul>

Abbreviations:  
 ACS: Acute Coronary Syndrome  
 CAD: Coronary Artery Disease  
 CABG: Coronary Artery Bypass Surgery  
 BMS: Bare Metal Stent  
 DES: Drug Eluting Stent  
 PCI: Percutaneous Coronary Intervention  
 TURP: Trans Urethral Resection of the Prostate

### Section 3. Preoperative Management of Insulin

	Recommended Preoperative Dosage Adjustment based on Patient's Usual Dosing Regimen			
Type of Insulin	Day -2	Day -1 AM	Day -1 HS	Day of Surgery AM (NPO after midnight)
Ultra long acting insulin • Degludec (Tresiba)	DM 2: 80% of usual dose**	DM 2: 80% of usual dose**	DM 2: 80% of usual dose**	DM 2: HOLD
	DM 1: usual dose	DM 1: usual dose	DM 1: usual dose	DM 1: 80% of usual dose**
Long acting insulin • Glargine (Basaglar, Lantus, Toujeo) • Determir (Levemir)	DM 2: usual dose	DM 2: usual dose	DM 2: 80% of usual dose**	DM 2: 80% of usual dose**
	DM 1: usual dose	DM 1: usual dose	DM 1: usual dose	DM 1: 80% of usual dose**
Intermediate acting insulin • NPH (Humulin N, Novolin N)	Usual dose	Usual dose	Usual dose	50% of usual dose
Premixed • e.g. Humulin 30/70 Novolin ge 30/70	DM 2: Usual dose	DM 2: Usual dose (if taking bowel prep/CF, consider 80% of usual dose)	DM 2: Usual dose (if taking bowel prep/CF, consider 80% of usual dose)	DM 2: If BG ≥ 8mmol/L, take 50% of usual dose  If BG < 8 mmol/L or patient unable to check BG, HOLD dose
	DM 1: Usual dose	DM 1: Usual dose (if taking bowel prep/CF, consider 80% of usual dose)	DM 1: Usual dose (if taking bowel prep/CF, consider 80% of usual dose)	DM 1: Usual dose
Nutritional • Regular (Humulin F, Novolin ge Toronto) • Lispro (Humalog, Admelog) • Aspart (Novorapid, Trurapi, Fiasp) • Glulisine (Apidura)	Usual dose	Usual dose	Usual dose	HOLD
		(if taking bowel prep/CF, consider 80% of usual dose)	(if taking bowel prep/CF, consider 80% of usual dose)	
Insulin Pump	Usual dose	Usual dose	Usual dose	DM2: reduce to 80% of usual basal rate; HOLD bolus doses
				DM1: usual basal rate*** HOLD bolus doses

\*\*consider further reduction if total daily dose is greater than 100 units per day, or if patient is at risk of hypoglycemia (elderly, advanced renal or liver disease, or those with at least one hypoglycemic episode in the past month) - **consult Anesthesia, Internal Medicine or patient's endocrinologist**

\*\*\*DM 1 consider reduce basal rate of insulin pump by 10% when NPO, if HbA1c <7%

Abbreviations: DM 1 = Type 1 diabetes mellitus; DM2 = Type 2 diabetes mellitus; CF = clear fluids; BG = blood glucose

#### Section 4. Preoperative Management of Aminolevulinic acid (Gleolan)

Avoid the following medications 24 hours before and after administration of aminolevulinic acid (Gleolan).

Medication Name (generic)	Medication Class
Acetazolamide	Diuretic
Adapalene	Retinoid
Afatinib	Antineoplastic; tyrosine kinase inhibitor
Alitretinoin	Retinoid
Alprazolam	Anxiolytic
Amiloride	Diuretic
Aminolevulinic acid topical	Photosensitizing agent
Amiodarone	Anti-arrhythmic
Amitriptyline	Antidepressant
Amlodipine	Calcium channel blocker
Aripiprazole	Antipsychotic
Atorvastatin	HMG Co-A reductase inhibitor
Atovaquone/proguanil	Anti-malarial
Azathioprine	immunosuppressants
Bicalutamide	Antineoplastic; antiandrogen
Brompheniramine	Antihistamine
Cabazitaxel	Antineoplastic; antimitotic agent
Calcitriol	Vitamin D analog
Candesartan	Angiotensin II receptor blocker
Capecitabine	Antineoplastic; anti-metabolite
Captopril	Angiotensin II converting enzyme inhibitor
Carbamazepine	Anticonvulsant
Cefotaxime	Beta-lactam antimicrobial
Ceftazidime	Beta-lactam antimicrobial
Celecoxib	Non-steroidal anti-inflammatory
Chlordiazepoxide	Anxiolytic
Chloroquine	Anti-malarial
Chlorothiazide	Diuretic
Chlorpromazine	Antipsychotic
Chlorthalidone	Diuretic
Ciprofloxacin	Antimicrobial; fluoroquinolone
Citalopram	Antidepressant
Clomipramine	Antidepressant
Clopidogrel	Antiplatelet
Clozapine	Antipsychotic
Coal tar	topical agents
Cobimetinib	Antineoplastic; MEK inhibitor
Corticosteroids	
Crizotinib	Antineoplastic; tyrosine kinase inhibitor
Cyproheptadine	antihistamine

Medication Name (generic)	Medication Class
Dacarbazine	Antineoplastic; anti-metabolite
Dapsone	Antimicrobial
Desipramine	Antidepressant
Diclofenac	Non-steroidal anti-inflammatory
Diltiazem	Calcium channel blocker
Diphenhydramine	Antihistamine
Disopyramide	cardiac medication
Docetaxel	Antineoplastic; antimitotic agent
Doxepin	Antidepressant
Doxorubicin	Antineoplastic; antimitotic agent
Doxycycline	Tetracycline
Dronedarone	Anti-arrhythmic
Eculizumab	Monoclonal antibody
Efavirenz	Antiretroviral
Enalapril	Angiotensin II converting enzyme inhibitor
Epirubicin	Antineoplastic; antimitotic agent
Erlotinib	Antineoplastic; tyrosine kinase inhibitor
Escitalopram	Antidepressant
Esomeprazole	Proton pump inhibitor
Ethacrynic acid	Diuretic
Ethinyl estradiol	Contraceptive hormone
Fenofibrate	Fibrate
Fluorouracil	Antineoplastic; anti-metabolite
Fluoxetine	Antidepressant
Flupentixol	Antipsychotic
Fluphenazine	Antipsychotic
Flurbiprofen	Non-steroidal anti-inflammatory
Fluvoxamine	Antidepressant
Fosinopril	Angiotensin II converting enzyme inhibitor
Furosemide	Diuretic
Gatifloxacin	Antimicrobial; fluoroquinolone
Gentamicin	Antimicrobial; aminoglycoside
Gliclazide	Anti-diabetic
Glimepiride	Anti-diabetic
Glyburide	Anti-diabetic

Medication Name (generic)	Medication Class
Haloperidol	Antipsychotic
Hydralazine	Antihypertensive
Hydrochlorothiazide	Diuretic
Hydroxychloroquine	Anti-malarial
Hydroxyurea	Antineoplastic
Ibuprofen	Non-steroidal anti-inflammatory
Imatinib	Antineoplastic; tyrosine kinase inhibitor
Imipramine	Antidepressant
Indapamide	Diuretic
Indomethacin	Non-steroidal anti-inflammatory
Irbesartan	Angiotensin II receptor blocker
Isoniazid	Anti-tuberculosis
Isotretinoin	Retinoid
Itraconazole	Antifungal
Ketoconazole	Antifungal
Ketoprofen	Non-steroidal anti-inflammatory
Ketorolac	Non-steroidal anti-inflammatory
Lamotrigine	Anticonvulsant
Leflunomide	Anti-inflammatory
Levofloxacin	Antimicrobial; fluoroquinolone
Losartan	Angiotensin II receptor blocker
Mefenamic acid	Non-steroidal anti-inflammatory
Mefloquine	Anti-malarial
Meloxicam	Non-steroidal anti-inflammatory
Mesalamine	Anti-inflammatory
MESNA	Chemoprotective agent
Metformin	Anti-diabetic
Methotrexate	Antineoplastic
Methoxsalen	Topical agents
Methyldopa	Antihypertensive; centrally acting agent
Methylene blue	Antidote; Phenothiazine
Metolazone	Diuretic
Moxifloxacin	Antimicrobial; fluoroquinolone
Nabumetone	Non-steroidal anti-inflammatory
Naproxen	Non-steroidal anti-inflammatory
Nifedipine	Calcium channel blocker
Nitrofurantoin	Antimicrobial
Nortriptyline	Antidepressant

Medication Name (generic)	Medication Class
Olanzapine	Antipsychotic
Olmesartan	Angiotensin II receptor blocker
Paclitaxel	Antineoplastic; antimitotic agent
Panitumumab	Antineoplastic; monoclonal antibody
Pantoprazole	Proton pump inhibitor
Paroxetine	Antidepressant
Perphenazine	Antipsychotic
Phenelzine	Antidepressant
Phenobarbital	Anticonvulsant
Phenytoin	Anticonvulsant
Pirfenidone	Anti-inflammatory
Piroxicam	Non-steroidal anti-inflammatory
Pravastatin	HMG Co-A reductase inhibitor
Procabazine	Antineoplastic
Prochlorperazine	Antipsychotic
promethazine	antipsychotic, antihistamine
Psoralens	Topical agents
Pyrazinamide	Anti-tuberculosis
Pyrimethamine	Anti-malarial
Quinapril	Angiotensin II converting enzyme inhibitor
Quinine	Anti-malarial
Ramipril	Angiotensin II converting enzyme inhibitor
Ranitidine	Antihistamine
Risperidone	Antipsychotic
Sertraline	Antidepressant
Simvastatin	HMG Co-A reductase inhibitor
Sitagliptin	Anti-diabetic
Spirolactone	Diuretic
St. John's Wort	Herbal
Sulfadiazine	Antimicrobial; sulfonamide derivative
Sulfamethoxazole	Antimicrobial; sulfonamide derivative
Sulfasalazine	Anti-inflammatory
Sulindac	Non-steroidal anti-inflammatory

Medication Name (generic)	Medication Class
Tazarotene	Topical agents
Telmisartan	Angiotensin II receptor blocker
Tenofovir	Antiretroviral
Terbinafine	Antifungal
Tetracycline	Tetracycline
Tocilizumab	Monoclonal antibody
Tretinoin	Retinoid
Triamterene	Diuretic
Trifluoperazine	Antipsychotic
Trimethoprim/sulfamethoxazole	Antimicrobial; sulfonamide derivative
Trimipramine	Antidepressant

Medication Name (generic)	Medication Class
Valsartan	Angiotensin II receptor blocker
Vandetanib	Antineoplastic; tyrosine kinase inhibitor
Vemurafenib	Antineoplastic; BRAF kinase inhibitor
Venlafaxine	Antidepressant
Verteporfin	Ophthalmic agent
Vinblastine	Antimitotic agent
Vitamin B6 (pyridoxine)	Supplements
Voriconazole	Antifungal

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