

	ANTIHYPERTENSIVE	ES .	
DRUG CLASS	DRUGS IN CLASS	WHEN TO HOLD	REASON
Angiotensin Converting	Benazepril / amlodipine (Lotrel®)	HOLD Day of Surgery	Potential
Enzyme (ACE) Inhibitors	Benazepril (Lotensin®)		Hypotension intra-
	Benazepril / HCTZ (Lotensin HCT®)	(Do NOT hold day of	op risk
	Captopril (Capoten®)	surgery for cataract	
	Captopril / HCTZ (Capozide®)	patients)	
	Enalapril (Vasotec®)		
	Enalapril / HCTZ (Vaseretic®)		
	Fosinopril (Monopril®)		
	Fosinopril / HCTZ (Monopril HCT®)		
	Lisinopril (Prinivil®, Zestril®)		
	Lisinopril / HCTZ (Prinzide® or		
	Zestoretic®)		
	Moexipril (Univasc®)		
	Moexipril / HCTZ (Uniretic®)		
	Perindopril (Aceon®)		
	Quinapril (Accupril®)		
	Quinapril / HCTZ (Accuretic®)		
	Ramipril (Altace®)		
	Trandolapril (Mavik®)		
	Trandolapril/verapamil (Tarka®)		
Angiotensin Receptor	Azilsartan (Edarbi®)	HOLD Day of Surgery	Potential
Blockers (ARB)	Candesartan (Atacand®)	note buy or surgery	Hypotension intra-
Dischers (runz)	Candesartan/HCTZ (Atacand HCT®)	(Do NOT hold day of	op risk
	Eprosartan (Teveten®)	surgery for cataract	op non
	Eprosartan/HCTZ (Teveten HCT®)	patients	
	Irbesartan (Avapro®)		
	Irbesartan / HCTZ (Avalide®)		
	Losartan (Cozaar®)		
	·		
	Losartan / HCTZ (Hyzaar®)		
	Olmesartan (Benicar®)		
	Olmesartan / HCTZ (Benicar HCT®)		
	Telmisartan (Micardis®)		
	Telmisartan/HCTZ (Micardis HCT®)		
	Valsartan (Diovan®)		
	Valsartan / HCTZ (Diovan HCT®)		
Beta Blockers	Acebutolol (Sectral)	Do NOT hold prior to	Withdrawal/rebound
	Atenolol (Tenormin)	surgery	effects if held
	Betaxolol (Kerlone)		
	Bisoprolol (Zebeta)		
	Carvedilol (Coreg)		
	Metoprolol (Lopressor, Toprol XL)		
	Nadolol (Corgard)		
	Nebivolol (Bystolic)		
	Penbutolol (Levatol)		
	Pindolol (Visken)		
	Propranolol (Inderal)		
	Sotalol (Betapace)		

Revised 08/28/2023 1 | Page



DRUG CLASS	DRUGS IN CLASS	WHEN TO HOLD	REASON
Calcium Channel Blockers	Amlodipine (Norvasc®)	Do NOT hold prior to	
	Clevipidine (Cleviprex®)	surgery	
	Diltiazem (Cardizem®)		
	Felodipine (Plendil®)		
	Isradipine (Dynacirc®)		
	Nicardipine (Cardene®)		
	Nifedipine (Procardia®, Adalat®)		
	Nimodipine (Nimotop®)		
	Verapamil (Calan®, Covera-HS®,		
	Verelan®)		
Clonidine	Clonidine (Catapres®)	Do NOT hold prior to	Withdrawal/
	oromente (carapeter)	surgery	rebound effects if
		Janger y	held
Digoxin	Digoxin (Lanoxin®)	Do NOT hold prior to	
Digo	Digoxiii (Ediloxiii)	surgery	
Diuretics	Acetazolamide (Diamox®)	HOLD day of surgery	Increases the risk of
	Amiloride	Tiold day or surgery	hypokalemia /
	Amiloride/Hydrochlorothiazide		hypovolemia
			Пурочовенна
	(Moduretic®)		
	Bendroflumethiazide		
	Bumetanide (Bumex®)		
	Chlorothiazide (Diuril®)		
	Chlorthalidone (Thalitone®)		
	Eplerenone (Inspra [®])		
	Ethacrynic acid (Edecrin®)		
	Furosemide (Lasix®)		
	Hydrochlorothiazide (Microzide®,		
	Esidrix®)		
	Indapamide (Lozol®)		
	Metolazone (Zaroxolyn®)		
	Methazolamide		
	Methyclothiazide		
	Metolazone (Zaroxoxlyn®)		
	Spironolactone (Aldactone®)		
	Spironolactone (Aldactone®) Spironolactone/Hydrochlorothiazide		
	(Aldactazide®)		
	Torsemide (Demadex®)		
	Triamterene (Dyrenium®)		
	Triamterene / HCTZ (Dyazide®,		
	Maxzide®)		
Statins	Atorvastatin (Lipitor)	Do NOT hold prior to	
	Fluvastatin (Lescol)	surgery	
	Lovastatin (Mevacor)		
	Pitavastatin (Livalo)		
	Pravastatin (Pravachol)		
	Rosuvastatin (Crestor)		
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	Simvastatin (Zocor)		

Revised 08/28/2023 2 | Page



RESPIRATORY MEDICATIONS				
DRUG CLASS	DRUGS IN CLASS	WHEN TO HOLD	REASON	
Inhaled Steroids	Albuterol (ProAir®, Proventil®, Ventolin®) Albuterol/Ipratropium (Duoneb®, Combivent®) Formoterol/Budesonide (Symbicort®) Formoterol/Mometasone (Dulera®) Ipratropium (Atrovent®) Levalbuterol (Xopenex®) Salmeterol (Serevent ®) Salmeterol/Fluticasone (Advair®) Beclomethasone (QVAR®)	Use on day of surgery and bring inhaler on surgery day Use on day of surgery		
	Flunisolide (AeroBid®) Fluticasone (Flovent ®) Mometasone (Asmanex®) Triamcinolone (Asmacort®) ANTICOAGULANTS	, , ,		
DRUG CLASS	DRUGS IN CLASS	WHEN TO HOLD	REASON	
Direct Thrombin Inhibitors	Dabigatran (Pradaxa®)	Do not discontinue without consulting prescribing physician	Increased risk of bleeding complications. No spinal or epidural within seven days of last dose.	
Factor XA Inhibitor	Fondaparinux (Arixtra®) Apixaban (Eliquis ®) Rivaroxaban (Xarelto®)	Do not discontinue without consulting prescribing physician	Increased risk of bleeding complications.	
Heparin SQ	Heparin SQ	At least 4 hours prior to surgery	Increased risk of bleeding complications.	
Low molecular weight heparin	Dalteparin (Fragmin®) Enoxaparin (Lovenox®)	24 hrs prior to surgery if on full anticoagulant dose (1 mg/kg), 12 hrs prior to surgery if on DVT prophylaxis dose (0.5 mg/kg)	Increased risk of bleeding; No spinal or epidural within 12 hrs of prophylaxis dose (0.5 mg/kg) and 24 hrs of therapeutic dose (1 mg/kg)	
Warfarin	Warfarin (Coumadin®)	Do not discontinue without consulting prescribing physician	Increased bleeding risk.	

Revised 08/28/2023 3 | Page



DRUGS CLASS	DRUGS IN CLASS	WHEN TO HOLD	REASON
Aspirin	Aspirin	If no history of CAD	Increased risk of
(and Aspirin- containing		or stroke:	bleeding
drugs	Aspirin/acetaminophen/caffeine	Discontinue 5-10	complications
	(Excedrin®)	days prior to	
	Aspirin/butalbital/caffeine (Fiorinal®)	surgery, especially	
	Aspirin/carisoprodol (Soma	for ophthalmologic	
	Compound®)	and neurosurgical	
	Aspirin/carisoprodol/codeine (Soma	procedures.	
	compound w/ codeine®)		
	Aspirin/dipyridamole (Aggrenox®)	Patients with hx of	
	Aspirin/orphenadrine/caffeine	CAD or stroke:	
	(Norgesic®)	Continue Aspirin,	
	Aspirin/oxycodone (Percodan®)	including day of surgery	
		if at all possible. Need	
		to consult with surgeon	
		if neuro/ spine/	
		ophthalmologic	
Anti Platalat Duvas		surgeon. Do NOT discontinue	Increased risk of
Anti-Platelet Drugs	Clopidogrel (Plavix®)	without explicit	bleeding
	Ducas and (Efficient®)	instructions from	complications
	Prasugrel (Effient®)	prescribing physician!	complications
	Ticagrelor (Brilinta®)	Must be documented	
	ricagreior (Brillitta*)	by prescribing physician	
	Ticlopidine (Ticlid®)	on form N-372 (Request	
	riciopianie (riciia®)	for Preoperative	
		Cardiac Evaluation)	
	Cilostazol (Pletal®)	HOLD 4 days preop	
	Chostazor (Fictar)	11025 radys preop	
	Dipyridamole (Persantine®)	HOLD 2 days preop	
	p, ,	7.7.4	
	Diipridamole/Aspirin (Aggrenox®)	HOLD 7 days preop	
Short-acting NSAIDs	Diclofenac (Cataflam®, Voltaren®)	HOLD day prior to	Increased risk for
	Etodolac (Lodine®)	surgery	bleeding and renal
	Fenoprofen (Nalfon®)		complications
	Flurbiprofen (Ansaid®)		
	Ibuprofen (Advil®, Motrin®)		
	Ibuprofen/Hydrocodone (Vicoprofen®)		
	Ibuprofen/Oxycodone (Combunox®)		
	Indomethacin (Indocin®)		
	ketoprofen (Orudis KT®, Oruvail®)		
	ketorolac (Toradol®)		
	Meclofenamate (Meclomen®)		
	Mefenamic Acid (Ponstel®)		
	Tolmetin (Tolectin®)		

Revised 08/28/2023 4 | Page



DRUG CLASS	DRUGS IN CLASS	WHEN TO HOLD	REASON
Long-acting NSAIDs	Diflunisal (Dolobid®) Etodolac (Lodine XL®) Meloxicam (Mobic®) Nabumetone (Relafen®) Naproxen (Aleve®, Anaprox®, Naprosyn®) Oxaprozin (Daypro®) Piroxicam (Feldene®) Sulindac (Clinoril®)	At least 3 days prior to surgery	Increased risk for renal, thrombo-embolic complications
Cox-2 Inhibitors	Celecoxib (Celebrex®) Nabumetone (Relafen)	At least 3 days prior to surgery	Increased risk for renal, thromboembolic Complications
	OPIOID PAIN MEDICATION	NS	
DRUG CLASS	DRUGS IN CLASS	WHEN TO HOLD	REASON
Long-Acting Opioids	Fentanyl Patch (Duragesic®) Hydromorphone SR (Exalgo®) Methadone (Dolophine®) Morphine SR (MS Contin®, Kadian®, Avinza®) Morphine SR/Naltrexone (Embeda®) Oxycodone SR (Oxycontin®) Oxymorphone (Opana ER®)	Do NOT hold prior to surgery	Discontinuation may result in opioid withdrawal and difficulty with postoperative pain control.
Short-Acting Opioids	Hydrocodone Hydrocodone/Acetaminophen (Hycet®, Lorcet®, Lortab®, Norco®, Vicodin®, Zydone®) Hydrocodone/Ibuprofen (Vicoprofen®) Hydromorphone (Dilaudid®) Hydromorphone ER (Exalgo®) Morphine Oxycodone (Roxicodone®) Oxycodone/Acetaminophen (Percocet®, Endocet®, Roxicet®) Oxycodone/Aspirin (Percodan®, Endodan®) Propoxyphene/Acetaminophen (Darvocet®) Propoxyphene/Aspirin (Darvon®) Tapentadol (Nucynta)	Do NOT hold prior to surgery Switch patient from Aspirin and Ibuprofen containing drugs one week pre-op.	Discontinuation may result in opioid withdrawal and difficulty with postoperative pain control.

Revised 08/28/2023 5 | Page



Opioid Agonist/ Antagonists	Buprenorphine/Naloxone (Suboxone®) Buprenorphine patch (Butrans®)	Buprenorphine can be continued as prescribed	May cause difficulty with
		including day of surgery and bring daily dose to hospital for post-op.	postoperative pain control, high opioid
		nospital for post-op.	requirements.
	Naltrexone (Vivitrol, ReVia, Depade)	Naltrexone should be	,
		transitioned to	
		alternative medication	
		1-2 weeks prior to	
		elective surgery by the prescribing physician.	
		presenting priyotetam	
DRUG CLASS	DRUGS IN CLASS	WHEN TO HOLD	REASON
Topical local	Lidocaine patch	Continue	
Anesthetic			
Skeletal Muscle	Carisoprodol Soma	Continue	
Relaxant	Metaxalone (Skelaxin)		
	CTEROLIR AND INAMEDIA ASSOCI	ATIONS	
DRUG CLASS	STEROID AND IMMUNE MEDIC DRUGS IN CLASS	WHEN TO HOLD	REASON
Steroids	Prednisone	Do NOT hold prior to	Adrenal
Steroius	Methylprednisolone (Medrol®)	surgery	insufficiency
	(,		,
DRUG CLASS	THYROID MEDICATIONS	-	DEACON
Thyroid hormone	DRUGS IN CLASS Levothyroxine (Synthroid®, Levoxyl®)	WHEN TO HOLD Do NOT hold prior to	REASON
Thyroid normone	Dessicated thyroid (Armour Thyroid®)	surgery	
	bessicated trigroid (Armodi Trigroid®)	Jul Ber 4	
	DIABETES MEDICATION	S	
DRUG LASS	DRUGS IN CLASS	WHEN TO HOLD	REASON
Short-Acting Insulin	Regular Insulin (Humulin, Novolin)	Hold day of surgery –	
	Insulin Aspart (Novolog)	unless otherwise	
	Insulin Glulisine (Apidra) Insulin Lispro (Humalog)	specified by prescriber	
Intermediate- Acting Insulin	Insulin NPH (Humulin N, Novolin N)	Take ½ dose of long	
intermediate- Acting insulin	Humulin 70/30	acting night prior –	
	Humalog 50/50	unless otherwise	
	Humalog 75/25	specified by prescriber	
	Novolin 70/30	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	Novolog 70/30		
Long-Acting Insulin	Insulin Glargine (Lantus, Toujeo)	Take ½ dose of long	
	Insulin Detemir (Levimir)	acting night prior –	
	Insulin Degludec (Tresiba)	unless otherwise	
		specified by prescriber	
Non-Insulin Injections	Linagliptin (Tradjenta)	Per regimen unless	
	Pramlintide (Symlin®)	otherwise specified by prescriber	
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Revised 08/28/2023 6 | Page



GLP-1 Receptor Agonists	Albiglutide (Tanzeum) Dulaglutide (Trulicity) Exenatide ER (Bydureon BCise) Exenatide IR (Byetta) Liraglutide (Saxenda, Victoza) Liraglutide/insulin degludec (Xultophy) Lixisenatide (Adlyxin) Lixisenatide/insulin glargine (Soliqua) Semaglutide (Ozempic, Rybelsus Wegovy) Tirzepatide (Mounjaro)	Hold 1-2 weeks prior to surgery.	Due to long half-life, GLP-1 receptor agonists delay gastric emptying, potentially increasing gastric volumes even after appropriate NPO time of >8 hours. This side effect raises concerns regarding risk of aspiration during anesthesia induction.
Oral Diabetic Drugs	Alogliptin (Nesina®) Alogliptin/Pioglitazone (Oseni®) Linagliptin (Tradjenta®) Metformin Pioglitazone (Actos®) Rosiglitazone (Avandia®) Saxagliptin (Onglyza®) Saxagliptin/Metformin ER (Kombiglyze XR®) Sitagliptin (Januvia®) Sitagliptin/Metformin ER (Janumet®)	Hold PM dose night before surgery and also hold day of surgery – unless otherwise specified by prescriber	
	CNS AGENTS		
DRUG CLASS	DRUGS IN CLASS	WHEN TO HOLD	REASON
Benzodiazepines	Alprazolam (Xanax®) Chlordiazepoxide (Librium®) Diazepam (Valium®)	Do NOT hold prior to surgery	Risk of withdrawal if stopped abruptly; potential for additive effects
Antidepressants - Monoamine Oxidase (MAO) Inhibitors	Isocarboxazid (Marplan®) Phenelzine (Nardil®) Tranylcypromine (Parnate®) Rasagiline (Azilect®) Selegiline patch (Emsam®)	Taper off 2 weeks prior to surgery if possible. Consult with prescribing provider for taper. OK to continue Discontinue at least 10 days prior to surgery if	Drug interactions (e.g., ephedrine, meperidine, methadone, tramadol), which could cause a hypertensive crisis.
		possible. Consult with prescribing provider for taper.	

Revised 08/28/2023 7 | Page



Antidonnessata CCDIs and	Citala a gara (Calaua ®)	De NOT heald and and	Diale of with decoral if
Antidepressants – SSRIs and	Citalopram (Celexa®)	Do NOT hold prior to	Risk of withdrawal if
SNRIs	Duloxetine (Cymbalta®)	surgery	stopped abruptly
	Escitalopram (Lexapro®)		
	Fluoxetine (Prozac®)		
	Fluvoxamine (Luvox®)		
	Paroxetine (Paxil®)		
	Sertraline (Zoloft®)		
	Strattera (Atomoxetine®)		
	Desvenlafaxine (Pristiq, Khedezla)	5 2071 11 : .	B: 1 6 ::1 1 1:6
Antidepressants - Other	Amitriptyline (Elavil ®)	Do NOT hold prior to	Risk of withdrawal if
	Bupropion (Wellbutrin®)	surgery	stopped abruptly
	Desipramine (Norpramin®)		
	Doxepin (Sinequan®)		
	Imipramine (Tofranil®)		
	Mirtazapine (Remeron®)		
	Nefazodone (Serzone®)		
	Nortriptyline (Pamelor®)		
	Trazodone (Desyrel®)		
	, , ,		
Lithium	Lithium (Eskalith®, Lithonate®)	Do NOT hold prior to	
		surgery	
Acetyl- cholinesterase	Donazepil (Aricept®)	Do NOT hold prior to	
Inhibitors	Galantamine (Razadyne®)	surgery	
(for Alzheimer's)	Rivastigmine (Exelon®)	5857	
	Tacrine (Cognex®)		
Anticonvulsants	Carbamazepine (Tegretol®)	Do NOT hold prior to	
Anticonvalsants	Clonazepam (Klonopin®)	surgery	
	Felbamate (Felbatol®)	Surgery	
	Gabapentin (Neurontin®)		
	·		
	Levetiracetam (Keppra®)		
	Lamotrigine (Lamictal®)		
	Oxcarbazepine (Trileptal®)		
	Phenytoin (Dilantin®)		
	Pregabalin (Lyrica®)		
	Primidone (Mysoline®)		
	Tiagabine (Gabitril®)		
	Topiramate (Topamax®)		
	Valproic Acid (Depakote®)		
	Zonisamide (Zonegran®)		
ADHD Drugs (Stimulants)	Dextroamphetamine (Adderall®)	Do NOT hold prior to	No documented
	Lisdexamfetamine (Vyvanse®)	surgery	interaction with
	Dexmethylphenidate (Focalin®)		anesthesia
	Methylphenidate (Ritalin®,		medications
	Metadate®, Concerta®, Daytrana		
	patch®)		
ADHD Drugs (non-stimulant)	Guanfacine (Intuniv®)	Do NOT hold prior to	Risk of rebound
,	` ' '	surgery	hypertension if
			withheld.

Revised 08/28/2023 8 | Page



Sleep Aids	Zolpidem (Ambien®)	May take night before	
	Eszopiclone (Lunesta®)	surgery	
Restless legs	Ropinirole (Requip)	Continue	
	Pramipexole (Mirapex)		
	REFLUX MEDICATIONS		
DRUG CLASS	DRUGS IN CLASS	WHEN TO HOLD	REASON
Proton Pump Inhibitors	Esomeprazole (Nexium®)	Do NOT hold prior to	Reflux prevention
	Lansoprazole (Prevacid®)	surgery	
	Omeprazole (Prilosec®)		
	Pantoprazole (Protonix®)		
	Rabeprazole (Aciphex®)		
Histamine H2 blockers	Cimetidine (Tagamet®)	Do NOT hold prior to	Reflux prevention
	Famotidine (Pepcid®)	surgery	
	Nizatidine (Axid®)		
	Ranitidine (Zantac®)		
Particulate Antacids	Gaviscon®	HOLD day of surgery	Risk of particulate
	Maalox®		aspiration
	OTHER DRUGS		
DRUG CLASS	DRUGS IN CLASS	WHEN TO HOLD	REASON
Appetite Suppressant (Diet	Phentermine (Adipex®, Lomaira®)	Discontinue at least 7	Risk of hypotension
Drug)	Phentermine / Topiramate (Qsymia®)	days pre-op	that is
	Benzphetamine (Didrex,Regimex)		unresponsive to
	Diethylpropior		treatment.
	Methamphetamine (Desoxyn)		
	Phendimetrazine (Bontril PDM)	0 .:	
Other Medical	Estrogen patch	Continue	
patches	Nicotine patch	Discoutions at least one	Diels of blooding
Herbal Supplements	See List	Discontinue at least one	Risk of bleeding,
		week pre-op	blood pressure problems, slow
			awakening from
			anesthesia, etc.
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Revised 08/28/2023 9 | Page

Epimedium

Evodia

Evening primrose oil

Herbals and Dietary Supplements with the Potential to Increase Bleeding

Fenugreek Peony Agrimony **Andrographis** Feverfew Policosanol Fish oil Angelica **Poplar** Anise Flaxseed Prickly Ash (Northern) Arnica Forskolin Quassia Asafoetida Forsythia **Red Clover** Garlic Aspen Resveratrol Bilberry Gamma linolenic acid Safflower **Black Haw** German Sarsaparilla Saw palmetto Bladder Wrack (Fucus) Ginger Sea buckthorn Ginkgo Biloba Bogbean Selenium Ginseng (Panax, Siberian) Boldo Senega Green tea Serrapeptase **Borage** Bromelain Guggul **Swallowroot** Holy basil Buchu **Sweet Clover** Burdock Honeysuckle Sweet Vernal grass Horse Chestnut Capsicum Sweet Woodruff Carrageenan Horseradish **Tamarind** Celery **Inositol Nicotinate** Tiratricol Chamomile (German and **Tonka Beans** Japanese apricot Jiaogulan Roman) Turmeric Chinese prickly ash Krill Oil Vanadium Cinchona Kudzu Vinpocetine Clove Licorice Vitamin E Cod liver oil Wild Carrot Meadowsweet Coltsfoot Melatonin Wild Lettuce Methoxylated flavones Danshen Willow Bark Deertongue Nattokinase Wintergreen DHA (docosahexaenoic acid) Onion Yarrow Dong quai Palm oil EPA (eicosapentaenoic acid) **Pantethine**

It is recommended that patients discontinue herbal supplements at least one week prior to surgery.

Passion Flower

Pau d'Arco

Revised 08/28/2023 10 | Page