



Kaiser Permanente: Promoting Evidence-Based Prescribing

DRUGS of CHOICE


PHARMACY SERVICES





KAISER PERMANENTE®


VACCINE▼ AGE GROUP▶	19-21 yrs	19-26 yrs	27-49 yrs	50-59 yrs	60-64 yrs	≥65 yrs
Influenza*	1 dose annually					
Tetanus, diphtheria, pertussis (Td/Tdap)*	Substitute 1-time dose of Tdap for Td booster, then boost with Td every 10 yr					
Varicella*	2 doses					
Human papillomavirus (HPV)* (females)	3 doses					
HPV (males)	3 doses	3 doses				
Zoster					1 dose	
Measles, mumps, rubella (MMR)*	1 or 2 doses					
Pneumococcal (polysaccharide)	1 or 2 doses					1 dose
Meningococcal*	1 or more doses					
Hepatitis A*	2 doses					
Hepatitis B*	3 doses					

*Covered by the Vaccine Injury Compensation Program

 For all persons in this category who meet the age requirements and who lack evidence of immunity (e.g., lack documentation of vaccination or have no evidence of prior infection)

 Recommended if some other risk factor is present (e.g., on the basis of medical, occupational, lifestyle, or other indications)

 Tdap recommended for ≥65 if contact with ≤12 month old child. Either Td or Tdap can be used if no contact.

 No recommendation

Please refer to the CDC web site (www.cdc.gov/vaccines) for more information on the 2013 vaccine recommendations.

Condition**Treatment of Choice****Second-line Treatment****Cardiology****Atrial Fib/Flutter**Antithrombotic therapy¹

High risk factor or >1 moderate risk factor:
 Warfarin (INR 2.0-3.0, target 2.5)
 One moderate risk factor: Aspirin 81-325 mg daily
 or Warfarin (INR 2.0-3.0, target 2.5)
 No risk factors: Aspirin 81-325 mg daily

Rate control

Atenolol 25-100 mg daily
 Metoprolol 25-100 mg bid

Diltiazem ER 180-360 mg daily
 Verapamil ER 240-320 mg daily
 Digoxin 125-250 mcg daily²

Heart FailureSystolic dysfunction
(LVEF <35-40%)

Lisinopril 5-40 mg daily
 Furosemide 20-200 mg daily-bid
 Carvedilol 3.125-25 mg bid or 50 mg bid in
 patients >85 kg
 Bisoprolol 2.5-20 mg daily
 Spironolactone 25 mg daily
 (class III and IV after ACEI titration)

Digoxin 125-250 mcg daily²
 Metoprolol Succinate 12.5-200 mg daily (titrate slowly)
 If ACEI intolerance due to cough, rash, or
 angioedema³ use Losartan 25-100 mg daily
 In African Americans, or if ACEI intolerance due to
 rising SCr, use Hydralazine 25 mg tid PLUS
 Isosorbide Dinitrate 20-40 mg tid⁴ OR
 Isosorbide Mononitrate 30-60 mg qam⁴.

Diastolic dysfunction

Furosemide 20-200 mg daily-bid
 Lisinopril 5-40 mg daily
 Treat fluid retention, hypertension, rhythm
 abnormalities and ischemia.

If ACEI intolerance due to cough, rash, or
 angioedema³ use Losartan 25-100 mg daily

Hypertension

Initial therapy: Lisinopril/HCTZ 20/25 mg⁵
 (Advance as needed) Start with ½ tablet → 1 tablet → 2 tablets daily
 If ACEI intolerant, replace w/ARB: Losartan 25 mg daily → 25 mg bid → 50 mg bid
 If BP still above goal: add Amlodipine 2.5 mg → 5 mg → 10 mg daily
 If BP still above goal: replace HCTZ with Chlorthalidone 25 mg daily

If BP still above goal: add beta-blocker or Spironolactone.

Atenolol 25 mg daily → 50 mg daily (keep HR 55-70 bpm) OR

Spironolactone 12.5 mg daily → 25 mg daily (if on thiazide therapy & eGFR ≥60 mL/min & K⁺<4.5)

w/ CAD

Initial therapy: Atenolol 25 mg + Lisinopril 10 mg daily⁴

If BP still above goal: replace Lisinopril with Lisinopril/HCTZ 20/25 mg;

Start with ½ tablet → 1 tablet → 2 tablets daily

If ACEI intolerant, replace w/ ARB: Losartan 25 mg daily → 25 mg bid → 50 mg bid

If BP still above goal: optimize beta-blocker dose, increase Atenolol to 50 mg daily

If BP still above goal: add Amlodipine 2.5 mg → 5 mg → 10 mg daily

If BP still above goal: replace HCTZ with Chlorthalidone 25 mg daily

If BP still above goal: advance beta-blocker or use Spironolactone

Spironolactone 12.5 mg daily → 25 mg daily (if on thiazide therapy & eGFR ≥60 mL/min & K⁺<4.5)

w/ Heart Failure

Systolic dysfunction

Lisinopril 5-40 mg daily

Furosemide 20-200 mg daily-bid

HCTZ 12.5-25 mg daily or

Chlorthalidone 12.5-25 mg daily

Lisinopril/HCTZ 10/12.5 mg or 20/25 mg daily

Carvedilol 3.125-25 mg bid or 50 mg bid in patients >85 kg

Bumetanide 0.5-2 mg daily

In African Americans, or if ACEI intolerance due to

rising SCr, use Hydralazine 25 mg tid PLUS

Isosorbide Dinitrate 20-40 mg tid⁴ OR Isosorbide

Mononitrate 30-60 mg qam⁴.

Diastolic dysfunction

Atenolol 25-100 mg daily

Lisinopril 5-40 mg daily

Lisinopril/HCTZ 10/12.5 mg or 20/25 mg daily

Atenolol/Chlorthalidone 50/25 mg or 100/25 mg daily

1. High risk factors: prior CVA, TIA, or embolism; prosthetic heart valve. Moderate risk factors: Age ≥75, HTN, CHF, diabetes, ejection fraction ≤30%. Weaker risk factors: female, age 65-74, CAD, thyrotoxicosis. ACC/AHA/ESC 2006 Atrial Fibrillation Guidelines.
2. Avoid doses >125 mcg/day in those ≥65 years old.
3. If ACEI-induced angioedema is severe, use caution with ARBs.
4. A daily nitrate-free interval of at least 14 hours is advisable to minimize tolerance.
5. Verify effective contraception in women of child-bearing potential: use chlorthalidone or HCTZ. Use caution with ACEI if eGFR <30 ml/min or K⁺>5.5. Use ARBs if ACEI intolerant and HTN not controlled on thiazide alone.

Condition**Treatment of Choice****Second-line Treatment****Dermatology****Acne**

Mild inflammatory and/or comedonal acne

Benzoyl peroxide/Erythromycin 5-3% gel daily-bid PLUS Tretinoin 0.025% cream qhs

OTC Benzoyl peroxide 5% daily-bid +/- Clindamycin 1% topical soln daily-bid PLUS Tretinoin 0.025% cream qhs

Moderate-severe acne or truncal involvement

Change from topical to oral antibiotic continue EES 400 mg bid

other treatments listed above:
Doxycycline 100 mg bid¹

Dermatitis**Low potency (face and folds):**

Hydrocortisone 1%, 2.5%

Medium potency:

Triamcinolone 0.1%

Medium to High potency:

Fluocinonide 0.05%

High Potency:

Augmented betamethasone dip 0.05%

Fungal Infection

OTC Terbinafine cream

OTC Clotrimazole cream
OTC Miconazole cream

Pediculosis (lice)

OTC Permethrin 1% rinse (Nix)²—leave on for 10 min, rinse well

Permethrin 5% cream (Elimite)²—apply to hair, cover w/ shower cap, leave on overnight, rinse well

Warts

OTC salicylic acid 40% plasters—change daily and scrape off dead skin before reapplying

1. Use of tetracyclines should be avoided during tooth development (i.e., last half of pregnancy and children <8 years old) because it may cause permanent tooth discoloration.

2. Repeat in 7 days if nits are still present.

Endocrinology**Diabetes (DM) Type 2**

Metformin IR 500-1000 mg bid
(max recommended is 2000 mg/day)

Metformin ER 500-2000 mg once daily
(max recommended 2000 mg/day)

Glipizide 2.5-10 mg bid
(max recommended is 20 mg/day)

Insulin glargine (Lantus **B, NF**) daily
(**NF** Long acting insulins: Equivalent to NPH in blood sugar control. Consider if nocturnal hypoglycemia or new onset Type I DM)

Insulin NPH (Humulin N) qhs
 Insulin regular (Humulin R) bid ac
 Insulin NPH/insulin regular (Humulin 70/30) bid ac

Hypercholesterolemia

Encourage added dietary changes
 Simvastatin 20-40 mg daily¹⁻³
 Atorvastatin 40- 80 mg daily (consider for
 patients that require LDL-C reduction >41%)

If intolerant to above:

Lovastatin 40-80 mg daily
 Pravastatin 40-80 mg daily

If LDL not at goal:

Ensure patient is adherent to statin

Additional options include:

Switch to a more potent statin
 Encourage added dietary changes & stop
 advancing therapy

Hypertriglyceridemia

TG = 200-500 mg/dL

OTC Slo-Niacin 250-1000 mg bid, max 2000 mg/day⁴

TG = 500-999 mg/dL

OTC omega-3 fish oil supplement 2-4 gm/day (EPA+DHA)

TG = >1000 mg/dL

Fenofibrate 160 mg daily⁶
 (if eGFR <50 mL/min, reduce dose to
 54 mg daily)

Gemfibrozil 600 mg bid⁶
 (If eGFR <50 mL/min, reduce dose to 300 mg bid)

1. Simvastatin 80 mg or Vytorin 10/80 mg should not be initiated in any patients including those that are already taking lower doses.
2. A reduced initial simvastatin dose (5-10 mg) is suggested in patients with eGFR <30 mL/min.
3. Simvastatin should not be used with itraconazole, ketoconazole, posaconazole, erythromycin, clarithromycin, telithromycin, HIV protease inhibitors, nefazodone, cyclosporine, gemfibrozil, or danazol. Do not use: >10 mg of simvastatin with dronedarone, verapamil, or diltiazem; or >20 mg simvastatin with amlodipine, amiodarone or ranolazine.
4. A maximum OTC Slo-Niacin dose of 1000 mg daily is recommended when used in combination with simvastatin 80 mg.
5. Clinical studies have failed to produce evidence that ezetimibe reduces morbidity/mortality.
6. Fenofibrate preferred when used in combination with a statin. Gemfibrozil is the preferred fibrate if eGFR ≤30 mL/min and patient is not on statin therapy. Avoid combining gemfibrozil with statins due to increased risk of myopathy and rhabdomyolysis.

Condition

Treatment of Choice

Second-line Treatment

Gastroenterology

Diverticulitis

Ciprofloxacin 500 mg bid +
Metronidazole 500 mg tid x 10-14 days
TMP-SMX DS bid +
Metronidazole 500 mg tid x 10-14 days

Amoxicillin/clavulante 875/125 mg BID x 10-14 days

GERD

Famotidine 20-40 mg bid **EXCLUDED**²
Ranitidine 150-300 mg bid **EXCLUDED**²

Pantoprazole 20-40 mg daily¹ **EXCLUDED**²
Omeprazole 20-60 mg daily¹ **EXCLUDED**²
(Use if fails double dose H₂RA, or if esophageal ulcer/stricture)

PUD or Barrett's Esophagus Pantoprazole 20-40 mg daily¹ **EXCLUDED**²

Omeprazole 20-60 mg daily¹ **EXCLUDED**²

H. Pylori Eradication

Omeprazole 20 mg bid¹ +
Amoxicillin 1 gm bid +
Clarithromycin 500 mg bid for 14 days
Metronidazole 500 mg bid may be substituted
for Amoxicillin in patients with PCN allergies.

IBS

Dicyclomine 20 mg qid prn[§]
Hyoscyamine 0.125-0.25 mg SL tid-qid prn
For constipation, options include:
OTC psyllium (Konsyl or Metamucil) 1 tsp or
1 Tbsp (depending on product) up to tid
(goal of stool large and soft)
OTC Polyethylene glycol 17 g dissolved in
4-8 oz beverage daily
For diarrhea: OTC Loperamide 4-8 mg/day

Nortriptyline[§] 10-50 mg qhs^{2,§}

1. Very low cost Rx and OTC Omeprazole 20 mg capsules and Pantoprazole 20-40 mg tablets are available for purchase at KP internal pharmacies.
 2. Proton-pump inhibitors (i.e., Omeprazole) and H₂-antagonists (i.e., Famotidine) are excluded from coverage under the Commercial prescription drug benefit and are only available to members for the cash price.
- § Avoid in adults ≥65 years old.

Infectious Diseases

Bronchitis

NO ANTIBIOTIC INDICATED

OTC APAP 325 mg 1-2 tabs q6h prn
 OTC Robitussin DM 2 tsp q4h prn
 ↑ fluid intake

If antibiotic indicated (acute bacterial exacerbation of chronic bronchitis):

Amoxicillin 500 mg tid x 10 days
 Doxycycline 100 mg bid x 10 days
 Azithromycin 500 mg x 1 day, then 250 mg daily
 x 4 more days

Cellulitis

Dicloxacillin 500 mg qid
 Cephalexin 500 mg qid
 Add TMP-SMX DS 1-2 tabs bid

Clindamycin 300 mg q6h

MRSA cellulitis

Doxycycline 100 mg bid
 Clindamycin 300-450 mg tid

Diabetic Skin Infection

With acute cellulitis

Dicloxacillin 500 mg qid
 Cephalexin 500 mg qid

Clindamycin 300 mg q6h

Deep ulcer (w/cellulitis or abscess)

Cephalexin 1 gm tid +
 Metronidazole 500 mg tid
 Amoxicillin/Clavulanate 875/125 mg bid

Ciprofloxacin 500 mg bid +
 Clindamycin 300 mg q6h

Deep ulcer (w/cellulitis or abscess) - suspect MRSA

Add TMP/SMX DS 1-2 tabs bid

Doxycycline 100 mg bid
 Clindamycin 300 mg q6h

Clostridium Difficile

Discontinue other antibiotics ASAP
 Metronidazole 500 mg q8h x 14 days¹

Vancomycin 125 mg PO q6h x 14 days
 (Vancomycin 50 mg/ml soln is preferred)

Community-Acquired Pneumonia

Risk Class I

Males 18-40 yrs OR

females 18-60 yrs with
 no comorbid conditions

Azithromycin 500 mg daily x 5 days
 Cefuroxime 500 mg bid x 7-10 days

Doxycycline 100 mg bid x 10 days

1. Metronidazole is preferred for the treatment of mild to moderate C. diff colitis.

Condition	Treatment of Choice	Second-line Treatment
Infectious Diseases, cont.		
Community-Acquired Pneumonia	Cefuroxime 500 mg bid x 7-10 days + Azithromycin 500 mg daily x 5-7 days OR Doxycycline 100 mg bid x 7-10 days	Levofloxacin 750 mg daily x 5 days
Herpes Zoster	Acyclovir 800 mg 5 times daily x 7-10 days	Valacyclovir NF 1 gm tid x 7 days Famciclovir NF 500 mg tid x 7 days
Otitis Media	Amoxicillin 500 mg tid or 875 mg bid x 5 days	Cefuroxime 500 mg bid x 7 days Azithromycin 500 mg x 1 day, then 250 mg daily x 4 more days
Pertussis	Azithromycin 500 mg x 1 day then, 250 mg daily x 4 more days	Clarithromycin 500 mg bid x 7 days Erythromycin 500 mg qid x 14 days If macrolide-intolerant: TMP-SMX DS bid x 14 days
Pharyngitis	Patient to fill prescription only after positive Strep. probe confirmed. PCN VK 500 mg bid x 10 days PCN G Benzathine 1.2 million units IM x 1 dose	If PCN-allergic: Cephalexin 500 mg bid x 10 days Clindamycin 300 mg tid x 10 days Azithromycin 500 mg x 1 day, then 250 mg daily x 4 more days
Viral	OTC throat spray or lozenge	
Sexually Transmitted Diseases		
The Centers for Disease Control (CDC) recommends presumptive therapy for both gonococcal and Chlamydia infection when making one of these diagnoses.		
Gonorrhea and Chlamydia	Ceftriaxone 250 mg IM x 1 dose PLUS Azithromycin 1 gm x 1 dose (DOT)	If patient has severe penicillin or cephalosporin allergy: Azithromycin 2 gm x 1 dose (DOT)

Herpes Simplex (Genital Herpes)

First clinical episode	Acyclovir 400 mg tid x 7-10 days or until clinical resolution	
Recurrent episodes	Acyclovir 400 mg tid x 5 days	Acyclovir 800 mg tid x 2 days
Suppressive therapy	Acyclovir 400 mg bid	

Sinusitis**NO ANTIBIOTIC INDICATED**

OTC saline nasal spray
OTC decongestant

If antibiotic indicated:

Amoxicillin 1000 mg bid x 7 days

If antibiotic indicated:

Doxycycline 100 mg bid x 7 days
TMP/SMX DS bid x 7 days
Azithromycin 500 mg daily x 3 days

Insomnia

Identify and treat the etiology of insomnia
Non-pharmacological practices
Overcoming™ Insomnia CBT program
Sleep hygiene (.piinsomnia)

If medication indicated, use short-term (<30 days)
Trazodone 25-100 mg qhs prn
Zolpidem 5 mg qhs prn¹
Zaleplon 5-20 mg qhs prn¹
Temazepam 15 mg qhs prn[§]
Mirtazapine 7.5 mg -15 mg qhs prn
Melatonin 3 mg -5 mg qhs prn

1. Avoid chronic use (>90 days per year) in adults ≥65 years old.

§ Avoid in adults ≥65 years old.

Neurology**Fibromyalgia**

Amitriptyline 25-150 mg qhs[§]
Tramadol 50-100 mg q4-6h prn
Cyclobenzaprine 5-10 mg tid[§]

Nortriptyline 10-75 mg qhs[§]

Migraine

Sumatriptan 25-100 mg; may repeat after
2 hrs, max 200 mg/day

Naratriptan 2.5 mg; may repeat after 4 hrs,
max 5 mg/day
Rizatriptan 5 mg; may repeat after 2 hrs,
max 30 mg/day

Migraine prevention

Propranolol 20 mg bid, ↑ up to 240 mg/day
Valproic Acid 250 mg bid, ↑ to max 500 mg bid
Divalproex delayed release (Depakote DR)
250 mg bid, ↑ to max 500 mg bid
Nortriptyline 25-75 mg qhs[§]

§ Avoid in adults ≥65 years old.

Condition¹**Treatment of Choice****Second-line treatment****Neurology, cont.****Neuropathic Pain**

Amitriptyline 25-150 mg qhs[§]
 Tramadol 50-100 mg q4-6h prn
 Cyclobenzaprine 5-10 mg tid[§]

Nortriptyline 10-75 mg qhs[§]
 Venlafaxine ER 37.5 mg daily x 7 d, ↑ to 75 mg/d
 x 7 days, then ↑ by 37.5 mg/d up to 150 mg/d²

Restless Legs Syndrome

Ropinirole 0.25 mg once daily 1-3 hours before bedtime
 If needed, after 2 days, can ↑ dose to 0.5 mg; ↑ to 1 mg
 after first week; then ↑ by 0.5 mg weekly (up to 4 mg)
 Pramipexole 0.125 mg [½ of 0.25 mg]
 once daily 2-3 hours before bedtime
 If needed, double the dose every 4-7 days (up to 0.5 mg)

1. Successful pain relief is defined as a 30-50% reduction in frequency and intensity from baseline on scale of 0-10

2. If pain is not relieved after 1 month of therapy at 150 mg/day, increase Venlafaxine dose to 225 mg/day. Venlafaxine should be taken with food. Daily doses can be divided bid or tid (if using Venlafaxine IR tablets) or one time daily (if using Venlafaxine ER capsules)

§ Avoid in adults ≥65 years old.

OB/GYN – Women's Health**Dysmenorrhea**

Ibuprofen 600 mg q6h or 800 mg q8h
 Naproxen 500 mg initially, then 250 mg q6-8h
 (max 1250 mg/day)

Oral contraceptive (i.e., Levora, Microgestin 1/20)

Menopausal Symptoms¹**Non-Hormonal Therapy for Hot Flashes²:**

Venlafaxine 37.5-150 mg/day
 Sertraline 25-50 mg daily^{3,§}
 Citalopram 10-20 mg daily⁴
 Gabapentin up to 300 mg tid x 4 weeks

For Hot Flashes With or Without Vaginal Dryness:

Uterus absent

Estradiol 0.5-1 mg daily[§]

Estradiol (Climara) transdermal patch 0.025-0.1 mg/24 hrs; Apply topically weekly[§]

Uterus present

Estradiol (oral or transdermal) +
Medroxyprogesterone 2.5 mg daily, or
5 mg for 12 consecutive days monthlyEstradiol (oral or transdermal) +
Norethindrone 0.35 mg daily, or
0.7 mg for 12 consecutive days monthly**For Isolated Vaginal Dryness:**Conjugated Estrogen (Premarin **B**) vaginal
cream 0.5 g 2x/weekEstradiol (Estring **B**) vaginal ring 2 mg;
one ring vaginally every 90 days**Oral Contraceptive⁵****Monophasic**Aviane
Levora⁶
Microgestin Fe 1/20
Microgestin Fe 1.5/30
Necon 0.5/35
Necon 1/35
Reclipsen
Sprintec (35 mcg EE + 0.25 mg Norgestimate)
Kelnor 1/35
Cryselle 28**Biphasic**

Necon1/11

TriphasicLeena
Nortrel 7/7/7
Tri-Sprintec
Trivora**Osteoporosis^{7,8}**

Alendronate 70 mg once weekly

Ibandronate (generic Boniva, **NF**) 150 mg monthly**Yeast Infection**

OTC vaginal antifungal

Fluconazole 150 mg x 1 dose

1. HRT should be discontinued while patient is hospitalized or at extended bed rest and restarted based on noncardiac benefits/risks. Do not start HRT in patients who have a recent history of CVD.
2. Off label use. There are no FDA-approved non-hormonal therapies for treatment of hot flashes. Data for the agents listed are some what limited.
3. Avoid if patient on concomitant tamoxifen. Drug interaction may reduce the effects of tamoxifen.
4. The maximum recommended dose of Citalopram is 20 mg per day for patients with hepatic impairment, >60 years of age, CYP2C19 poor metabolizers or taking concomitant CYP2C19 inhibitors.
5. Not listed as first and second line therapy, but listed alphabetically by phases.
6. Preferred formulary alternative for extended cycle regimen.
7. For osteopenia, refer to Fracture Risk Assessment (FRAX) tool to estimate individual fracture risk (www.shef.ac.uk/FRAX).
8. Total daily intake (from diet and supplements) of calcium 1,200 mg/day and vitamin D3 1,000 units/day is recommended for postmenopausal women and for men 50 years and older.

§ Avoid in adults ≥65 years old.

NF = Non-Formulary**B** = Brand name drug – higher copay for tiered plans

Condition**Treatment of Choice****Second-line treatment****Ophthalmology****Conjunctivitis**

Allergic

OTC Ketotifen (Zaditor) 0.025% soln 1 gtt bid
 OTC Naphazoline/Pheniramine (Opcon-A)
 1 gtt qid

Fluorometholone 0.1% 1-2 gtt bid-qid
 Cromolyn 4% 1-2 drops q4-6 h **NF**
 Epinastine 0.05% 1 gtt bid **NF**

Infectious

Gentamicin soln 1 gtt tid
 Polymyxin B/TMP (Polytrim) soln 1 gtt qid

Bacitracin/Polymyxin-B ophth oint (Polysporin)
 ½ inch ribbon qid
 Ofloxacin ophthalmic drops 1 gtt qid

Pain**Acute**

Inflammatory

Ibuprofen 400-800 mg tid[§]
 Naproxen 375-500 mg bid[§]
 Meloxicam 7.5-15 mg daily[§]

Etodolac 300-400 mg bid-tid[§]
 Nabumetone 500-1000 mg bid[§]

Non-inflammatory

OTC APAP 325-650 mg q6h¹
 Hydrocodone/APAP 5/325 mg 1-2 tabs q6h¹
 Hydrocodone/APAP 5/325 mg 1-2 tabs q6h¹
 Oxycodone/APAP 5/325 mg 1-2 tabs q6h (C-II)¹

Morphine IR 7.5-15 mg q3-4h prn pain (C-II)
 Hydromorphone 2-4 mg q3-4h prn severe pain (C-II)

Severe pain

Chronic

Morphine SR 15 mg qhs x 1 week, then
 15 mg q12h (C-II)
 Fentanyl patch 12.5, 25, 50, 75, 100 mcg/hr q72h (C-II)

Methadone 2.5-10 mg q8-12h (C-II)²

Hydrocodone to Morphine SR

1 to 1.5 mg Hydrocodone = 1 mg morphine sulfate

Total Daily dose of HYDROCODONE	Approximate Daily Dose of Morphine	Equianalgesic dose of MORPHINE SR
20-30 mg	15-30 mg	15 mg daily-BID
40-60 mg	30-60 mg	15-30 mg BID
80-120 mg	60-120 mg	30-60 mg

1. Limit APAP dose to ≤ 3 gm/day; ≤ 2 gm/day for adults with liver dysfunction or history of alcohol use.
 2. Use with caution. Avoid in opioid-naïve patients & in those where long-term use may be required for non-cancer and non-post surgical conditions.
 3. Other long-acting opioid options include transdermal Fentanyl (reserved for patients with chronic pain who are opioid-tolerant and/or unable to take oral medications) and methadone (associated with cardiac complications i.e., QTc prolongation and one must be familiar with the appropriate monitoring guidelines before initiating its use).
 4. Start with short-acting opioid to determine appropriate dose and can substitute with equivalent dose of long-acting formulation (i.e., Morphine SR) if opioid is effective & well-tolerated.
- § Avoid in adults ≥ 65 years old.

Psychiatry**Anxiety**

Acute

Lorazepam 0.5-1 mg bid prn[§]Alprazolam 0.5 mg tid prn[§]

Chronic

Fluoxetine 10-40 mg daily[§]

Buspirone 5-10 mg bid-tid (max 60 mg/day)

Citalopram 10-40 mg daily¹

Sertraline 25-100 mg daily

Paroxetine 10-20 mg daily

Venlafaxine 37.5-75 mg daily

DepressionFluoxetine 10-60 mg daily (max 80 mg/day)[§]Venlafaxine 37.5 mg/day x 7 days, \uparrow to 75 mg/day x 7Citalopram 10-40 mg daily (max 40 mg/day)¹days, then \uparrow to 150 mg/day (max 375 mg/day)

Sertraline 50-100 mg daily (max 200 mg/day)

Bupropion SR 150 mg qam x 3 days, \uparrow to 150 mg bidEscitalopram 5-20 mg daily (max 20 mg/day)¹

x several weeks (max 400 mg/day)

Paroxetine 20-40 mg daily (max 50mg/day)

Mirtazapine 15-45 mg qhs (max 45 mg/day)

1. The maximum recommended dose of Citalopram is 20 mg per day and Escitalopram is 10 mg per day for patients with hepatic impairment, >60 years of age, CYP2C19 poor metabolizers or taking concomitant CYP2C19 inhibitors.

§ Avoid in adults ≥ 65 years old, short term only.

NF = Non-Formulary

B = Brand name drug – higher copay for tiered plans

Condition**Treatment of Choice****Second-line Treatment****Psychiatry, cont.****Psychosis**

Risperidone 0.25-8 mg/day (dosed qhs or bid)
 Quetiapine 25 mg bid, titrate up to
 maintenance dose of 200-800 mg/day
 Ziprasidone 40-80 mg bid

Olanzapine 2.5-20 mg daily
 Aripiprazole (Abilify **B**) 10-30 mg day (½ tab dosing)

1. Venlafaxine should be taken with food. Daily doses can be divided to bid or tid (if using Venlafaxine IR tablets) or once daily (if using Venlafaxine ER capsules).

Respiratory**Allergic Rhinitis**

Fluticasone 1-2 sprays each nostril daily
 Flunisolide 2 sprays each nostril bid

OTC Loratadine 10 mg daily¹
 OTC Cetirizine 5-10 mg daily¹
 OTC Fexofenadine 60 mg bid or 180 mg daily¹

Asthma (persistent)²**Albuterol prn for acute symptoms³ + long acting controller****Inhaled Corticosteroids (ICSs):**

Beclomethasone HFA (QVAR **B**)
 80 mcg 1-2 puffs bid, max 4 puffs bid
 Mometasone furoate (Asmanex **B**)
 220 mcg 1 inh in the evening - 2 inh bid

Combination ICS/LABA:

Mometasone furoate/formoterol (Dulera **B, NF**)
 100/5 mcg or 200/5 mcg - 2 inh bid

COPD (mild)

Albuterol 1-2 puffs q4-6h prn AND/OR
 Tiotropium (Spiriva **B**) 18 mcg 1 inhalation daily

Salmeterol (Serevent **B**) 50 mcg 1 puff BID
 Ipratropium HFA (Atrovent HFA **B**) 2 puffs qid

Smoking Cessation⁴

0-5 cigarettes/day: OTC Nicotine gum or lozenge 2 mg x 12 wks

6-10 cigarettes/day: OTC Nicotine patch taper 14 mg/d x 2 wks, then 7 mg/d x 2 wks

11-20 cigarettes/day: OTC Nicotine patch taper 21 mg/d x 4 wks, 14 mg /d x 2 wks, then 7 mg/d x 2 wks PLUS OTC Nicotine gum or lozenge prn for breakthrough cravings

21-30 cigarettes/day:

- OTC Nicotine patch taper PLUS OTC Nicotine gum or lozenge prn for breakthrough cravings OR
- OTC Nicotine patch taper PLUS Bupropion SR 150 mg BID x 8 wks⁵ OR
- Triple therapy (option for refractory patients who have history of severe withdrawal symptoms):
 OTC Nicotine patch taper + OTC Nicotine gum or lozenge + Bupropion SR⁵

31-40 cigarettes/day: OTC Nicotine patch (high dose) 35 mg/day [21 mg + 14 mg] x 4 wks, 21 mg/d x 2 wks, 14 mg/d x 2 wks, 7 mg/d x 2 wks + OTC Nicotine gum or lozenge + Bupropion SR⁵

>40 cigarettes/day: OTC Nicotine patch (high dose) 42 mg/day [2 x 21 mg] x 4 wks, 21 mg/d x 2 wks, 14 mg/d x 2 wks, 7 mg/d x 2 wks + OTC Nicotine gum or lozenge + Bupropion SR⁵

1. Antihistamines can be used for mild or breakthrough symptoms or in combination with an intranasal steroid.
2. Stepwise approach to therapy is recommended. The goal of therapy is to maintain long-term control with the least amount of medication, thereby exposing the patient to the least risk for medication adverse effects. For more information on therapy options, please refer to the Adult Asthma guidelines on cl.kp.org.
3. Use of albuterol more than 2 days per week for symptom relief (not prevention of exercise induced bronchospasm) generally indicates inadequate control and the need to step-up treatment.
4. Final selection and dosage of medication may depend on patient preference, contraindications, potential for ADEs, and previous experience.
5. Bupropion therapy should begin one week prior to quit date.

Rheumatology

Gout (Acute)

Indomethacin 50 mg tid x 3 days, then
50 mg bid x 4-7 days (or until resolved)[§]
Ibuprofen 800 mg tid x 2 days, then
400 mg tid for 4-7 days (or until resolved)[§]

Prednisone 40 mg daily x 3 days, 30 mg daily x 3 days
20 mg daily x 3 days, 10 mg x 3 days, then 5 mg
x 3 days (or until resolved)
IM or intra-articular corticosteroid injection
(i.e., methylprednisolone, triamcinolone)

Gout (Prevention)¹

Urate-lowering therapy

Non-pharmacological practices (i.e., diet)
Allopurinol 100 mg, ↑ by 100 mg/day every 2-4
weeks until serum uric acid level <6 mg/dL²
(max 800 mg/day)

Probenecid 250 mg bid x 1 week, ↑ to 500 mg bid³
(max 400 mg/day)

Gout (Prophylaxis)⁴

Indomethacin 50 mg daily-bid[§]

Naproxen 500 mg daily[§]
Colchicine (Colcrys **B, NF**) 0.6 mg daily-bid⁴

1. Urate lowering therapy is indicated for patients with recurrent gout attacks, chronic gouty arthropathy, tophi, and uric acid stones.
2. Start with allopurinol 50 mg daily in patients with CKD stage 4 or 5.
3. Probenecid is not an option for patients who are under-excretors of uric acid and in those resistant to, or intolerant of allopurinol. It should not be used in patients with renal impairment or a history of nephrolithiasis.
4. Prophylaxis therapy should be initiated with urate lowering therapy and continued for 4-6 months after uric acid target (<6 mg/dL) is achieved. Colchicine dose should be adjusted in those with eGFR <50 mL/min and avoided in patients with eGFR <10 mL/min.

§ Avoid in adults ≥65 years old.

Condition

Treatment of Choice

Second-line Treatment

Urology

BPH

Terazosin 2 mg qhs; if ineffective may increase by 2 mg every week to a max of 10 mg/day
 Doxazosin **NF** 1 mg qhs; if ineffective may increase by 1 mg every week to a max of 4 mg/day

Tamsulosin 0.4 mg daily 30 min after the same meal¹

Hyperactive Bladder (Urge incontinence)

Behavioral modifications (i.e., kegels, timed voiding, bladder training)
 Oxybutynin 2.5-5 mg bid-tid[§]
 Oxybutynin ER 5-15 mg/day^{2,§}

Oxybutynin transdermal patch (Oxytrol, **OTC**) 3.9 mg/day
 One patch twice weekly (every 3-4 days)[§]
 Trospium IR 20 mg bid³
 (20 mg daily in those ≥ 75 years)

Prostatitis, Acute⁴

Young sexually active men Ceftriaxone 250 mg IM x 1 dose PLUS
 Azithromycin 1000 mg x 1 dose

Older patients TMP-SMX DS bid up to 6 weeks
 Ciprofloxacin 500 mg bid up to 6 weeks

Urinary Tract Infection⁵

Uncomplicated cystitis in non-pregnant women

No antibiotic indicated for asymptomatic bacteriuria in non-pregnant women

TMP-SMX DS bid x 3 days

Ciprofloxacin 250 mg bid x 3 days⁶
 Nitrofurantoin 100 mg bid x 7 days⁷

Cystitis in pregnancy Cephalexin 500 mg bid x 3-7 days

Nitrofurantoin 100 mg bid x 5 days³

Pyelonephritis Ciprofloxacin 500 mg bid x 10 days

TMP/SMX DS bid x 14 days⁸
 (if organism is susceptible)

1. Tamsulosin is associated with increased complications during cataract surgery (Intraoperative Floppy Iris Syndrome [IFIS]). Consider non-selective alpha-blockers (i.e., Terazosin, Doxazosin) for patients diagnosed with cataracts and who have not undergone cataract surgery.
2. May be preferred in adults ≥ 65 years because of improved side effect profile. May be preferred for elderly patients with dementia.
3. If duration of symptoms >3 weeks, treat for 21-28 days.
4. Therapeutic options for UTI maybe limited and should be based on known or local patterns of susceptibility for the causative pathogen(s).

5. Consider Cephalexin therapy in areas with high rates (>20%) of E. coli resistant to TMP/SMX.
6. Caution should be used when using Ciprofloxacin in the elderly due to the risk of tendonitis and tendon rupture.
7. Nitrofurantoin is contraindicated in patients with significant renal impairment (eGFR <60 mL/min). Avoid chronic use in adults ≥ 65 years old.
8. Avoid use in 1st and 3rd trimester of pregnancy.
- § Avoid in adults ≥ 65 years old.

Pediatrics

Allergic Rhinitis

≥ 4 yrs:	Fluticasone 1-2 sprays each nostril daily	OTC Loratadine 5 mg/5 mL liquid
≥ 6 yrs:	Flunisolide 2 sprays each nostril bid	OTC Cetirizine 5 mg/5 mL liquid
		OTC Fexofenadine 30 mg/5 mL liquid
		OTC Brompheniramine + PE (Dimetapp) ¹
		Chlorpheniramine 2 mg/5 mL syrup ¹

Asthma (persistent)²

Albuterol prn for acute symptoms³ + long acting controller

<5 yrs:

Fluticasone HFA (Flovent **B**) 44 mcg only
44 mcg 1-2 puffs bid, max 2 puffs bid⁴

If unable to use inhaler, consider budesonide nebulizer suspension

5-11 years:

Beclomethasone HFA (QVAR **B**)
40 mcg 1-2 puffs bid, max 2 puffs bid

4-11 yrs:

Mometasone (Asmanex **B**) 110 mcg 1 inh qpm

≥ 12 years:

Beclomethasone HFA (QVAR **B**)
80 mcg 1-2 puffs bid, max 4 puffs bid

Mometasone (Asmanex **B**) 220 mcg 1 inh qpm -
2 inh bid

1. FDA cautions against the use of cough and cold medicines in children under 4 years of age.
2. For asthma not controlled on ICS therapy alone, addition of montelukast (generic Singulair) is a potential option. For asthma not controlled on low-to-medium dose ICS in older kids, consider change to combination ICS/LABA therapy. For more information on therapy options, please refer to the Asthma guidelines on cl.kp.org.
3. Use of albuterol more than 2 days per week for symptom relief (not prevention of exercise induced bronchospasm) generally indicates inadequate control and the need to Step-Up therapy.
4. Reserve use for pediatric patients <5 years or patient >5 years who have failed, or who are intolerant to beclomethasone HFA (QVAR).

Condition

Treatment of Choice

Second-line Treatment

Pediatrics, cont.

Conjunctivitis

Allergic

OTC Ketotifen (Zaditor) 0.025% soln 1 gtt bid
 OTC Naphazoline/Pheniramine (Opcon-A)
 1 gtt qid

Ketorolac 0.5% 1 gtt qid

Infectious

Gentamicin soln 1 gtt tid
 Polymyxin B/TMP (Polytrim) soln 1 gtt tid
 Sulfacetamide soln 1 gtt tid

Ofloxacin ophthalmic drops 1 gtt qid

Otitis Media²**Antibiotics are not indicated for otitis media with effusion only (OME).**

Amoxicillin 80-90 mg/kg/day ÷ bid x 10 days

Failure of treatment after 48-72 hrs or recurrence:

Adolescents:

Amoxicillin 1000 mg bid x 5-7 days
 Azithromycin 500 mg daily x 1 day, then
 250 mg daily x 4 more days

Amoxicillin/Clavulanate ES 90 mg/kg/d ÷
 bid x 10 days

Cefdinir susp 14 mg/kg/day daily or ÷ bid x 10 days
 Clindamycin 30-40 mg/kg/day ÷ tid x 10 days
 Ceftriaxone 50 mg/kg/d IM daily x 1-3 days

If PCN Allergic:

Non-Type 1 hypersensitivity: Cefdinir susp
 14 mg/kg/day daily or ÷ bid x 10 days

Adolescents:

Cefuroxime 500 mg bid x 7 days
 Amoxicillin/Clavulanate 875/125 mg bid x 7 days

Type 1 hypersensitivity:

Azithromycin 10 mg/kg/day daily (max 500 mg)
 x 1 day then, 5 mg/kg/day daily (max 250 mg)
 x 4 more days
 Clarithromycin 15 mg/kg/day ÷ bid x 7-10 days

Pertussis

Azithromycin 10 mg/kg x 1 day, then 5 mg/kg
 daily for 4 more days

Clarithromycin 15 mg/kg/day ÷ bid x 7 days
 Erythromycin 40-50 mg/kg/day ÷ qid x 14 days

If macrolide-intolerant:

TMP-SMX 8 mg/kg/day ÷ bid x 14 days

Pharyngitis

Streptococcal

Patient to fill prescription only after positive strep. probe confirmed.

PCN VK

<27 kg 250 mg bid x 10 days

≥27 kg 500 mg bid x 10 days

Amoxicillin 45 mg/kg/day ÷ bid x 10 days
(max 10000 mg/day)

PCN G benzathine

<27 kg 600,000 units IM x 1 dose

≥27 kg 1.2 million units IM x 1 dose

If PCN-allergic:

Cephalexin

<27 kg 250 mg bid x 10 days

≥27 kg 500 mg bid x 10 days

Clindamycin 15-30 mg/kg/day ÷ tid x 10 days

Azithromycin 12 mg/kg/day x 5 days

Sinusitis

Acute bacterial

Amoxicillin/Clavulanate 45 mg/kg/day ÷
bid x 10-14 days**Adolescents:**

Amoxicillin/Clavulanate 1000 mg bid x 10-14 days

Doxycycline 100 mg bid x 10-14 days

If PCN allergic:Non-Type 1 hypersensitivity (use combination therapy):Cefdinir susp 14 mg/kg/day daily or ÷ bid **-PLUS-**

Clindamycin 30-40 mg/kg/day ÷ tid x 10-14 days

Type 1 hypersensitivity:

Levofloxacin 10-20 mg/kg/day daily or ÷ bid x 10-14 days

URI

Treat symptoms

OTC PSE, APAP, or Chlorpheniramine¹

1. FDA recommends that over-the-counter (OTC) cough and cold medicines not be used for children under 2 years of age.

2. A shorter treatment course of 5-7 days may be considered for children ≥ 2 years old.

Abbreviations

APAP	Acetaminophen
ACEI	Angiotensin Converting Enzyme Inhibitors
ARB	Angiotensin II Receptor Blocker
BPH	Benign Prostatic Hyperplasia
CBT	Cognitive Behavioral Therapy
COPD	Chronic Obstructive Pulmonary Disease
CKD	Chronic Kidney Disease
CVA	Cerebrovascular accident
EES	Erythromycin Ethylsuccinate
GERD	Gastroesophageal Reflux Disease
eGFR	Estimated Glomerular Filtration Rate
HRT	Hormone Replacement Therapy
HTN	Hypertension
IBS	Irritable Bowel Syndrome
LVEF	Left Ventricular Ejection Fraction
MRSA	Methicillin-resistant Staph. aureus
PCN	Penicillin
PE	Phenylephrine
PSE	Pseudoephedrine
SMX	Sulfamethoxazole
TCA	Tricyclic antidepressant
TIA	Transient Ischemic Attack
TMP	Trimethoprim
URI	Upper Respiratory Infection

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