New Lipid Lowering Medications

Contributor: Diana Isaacs, PharmD, BCPS, BCACP, BC-ADM, CDCES, FADCES, FCCP 2022

PCSK9 Inhibitors Lipid Medications Proprotein convertase subtilisin/kexin type 9					
	Alirocumab (Profluent) Evolocumab (Repatha)				
FDA-approved indications	 Primary hyperlipidemia (HLD) Homozygous familial hypercholester Secondary prevention of cardiac even 				
Dosing	HoFH: 150 mg SC q2 weeks HLD or secondary cardiac prevention: 75 mg SC q2 weeks or 300 mg SC q4 weeks; if adequate LDL response not achieved, may increase to max of 150 mg q2 weeks	 HoFH: 420 mg SC q4 weeks; may increase to 420 mg q2 weeks if meaningful response not achieved in 12 weeks HLD or secondary cardiac prevention: 140 mg q2 weeks or 420 mg q4 weeks 			
Dosage forms	Auto-injector 75 mg/mL or 150 mg/mL	 Repatha Sure Click (auto-injector) 140 mg/mL Repatha Pushtronex System (single use infusor with pre-filled cartridge) 420 mg/3.5 mL – administered over 9 minutes 			
Storage	 Store in refrigerator in outer carton t Once used, keep at room temperature 				
Injection clinical pearls	 Do not shake or warm with water Administer by SC injection into thigh, Rotate injection site with each injection 				
Drug interactions	No known significant interactions				
Monitoring parameters	Lipid panel before initiating therapy, thereafter	4-12 weeks after initiating, and q3-12 months			
Side effects	 Injection site reaction (4-17%) Hypersensitivity reaction (9%) Influenza (6%) Myalgia (4-6%) Diarrhea (5%) 	 Nasopharyngitis (6-11%) Upper respiratory tract infection (9%) Diabetes mellitus (9%) Influenza (8-9%) Injection site reaction (6%) Myalgia (4%) 			

Adenosine Triphosphate-citrate Lyase - ACL Inhibitor

Indicated for adults with heterozygous familiar hypercholesterolemia or established ASCVD who require additional LDL lowering. Use with maximally tolerated statins for further LDL reduction. Available in a combination pill with ezetimibe. The effects on CV morbidity and mortality have not yet been determined.

Class / Action	Generic / Trade Name	Daily Dose	Frequency	Considerations
Lowers LDL	Bempedoic acid /	180 mg	Once daily	May increase uric acid levels-
cholesterol by	Nexletol			use caution in gout. May take
inhibiting				with or without food.
production in the	Bempedoic acid/ezetimibe	180 mg /10mg		No dose adjustment for renal
liver.	(Nexlizet)			or hepatic impairment.

New nonsteroidal MRAs for Type 2 and Chronic Kidney Disease

Nonsteroidal Selective Mineralcorticoid Antagonist

Indicated for people with chronic kidney disease (CKD) associated with Type 2 diabetes. Reduces the risk of kidney function decline, kidney failure, cardiovascular death, non-fatal heart attacks, and hospitalization for heart failure in adults with chronic kidney disease associated with type 2 diabetes. The mineralocorticoid receptor antagonist blocks the effects of aldosterone and reduces the risk of kidney function decline as well as heart failure.

Class / Action	Generic / Trade Name	Daily Dose	Frequency	Considerations
Nonsteroidal, selective mineralcorticoid antagonist. Blocks mineralcorticoid receptor mediated sodium reabsorption and mineralcorticoid overactivation in epithelial (for example kidneys) and nonepithelial (for example heart, blood vessels) tissues.	Finerenone / Kerendia	10-20 mg	Once daily	Monitor potassium 4 weeks after initiation or dose adjustment (although impact on potassium is much less than non-slective mineralcorticoid antagonists like spironolactone). Since medication is a CYP3A4 substrate, avoid taking with other strong cype3A4 inhibitors. Avoid grapefruit or grapefruit juice. May take with or without food.

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Cholesterol Medications

LDL Lowering Medications

Class / Action	Generic / Trade Name	Usual Daily Dose Range	LDL % Lowering	Considerations
"Statins"	Atorvastatin / Lipitor*	10 – 80 mg	20- 60	Lowers TGs 7-30%
HMG- CoA Reductase Inhibitors	Fluvastatin / Lescol* Lescol XL	20 – 80 mg 80 mg	20- 35	Raise HDL 5-15% Take at night. Side effects: weakness,
Inhibits enzyme that converts HMG-CoA to mevalonate -	Lovastatin* Mevacor Altoprev XL	20 - 80 mg 10 - 60 mg	20- 45	muscle pain, elevated glucose levels. Review package insert for
limits cholesterol	Pravastatin / Pravachol*	10 - 80 mg	20- 45	specific dosing
production	Rosuvastatin / Crestor	5 – 40 mg	20- 60	adjustments based on
	Simvistatin / Zocor* Pitavastatin / Livalo	20 – 80 mg 2 – 4 mg	20- 55	drug, food interactions (ie grapefruit).
Bile Acid Sequestrants Action: Bind to bile	Cholestyramine/ Questran*	4 to 16 g per day powder – 1 scoop 4g	Lower LDL by 15-30%	May raise TG levels. Raise HDL 3-5%.
acids in intestine, decreasing cholesterol production. Secondary action – raise HDL	Colesevelam / Welchol Lowers A1c 0.5% Colestipol / Colestid	3.75 x 1 daily 1.875 x 2 daily (625mg tablets) 2 - 16 gms per day tabs		Avoid taking in same timeframe w/ other meds – may affect absorption (see package
raise nDL		Powder – 1 scoop = 5g 5 to 20 gm per day Mix w/ fluid		insert). Side effects: GI in nature
Cholesterol Absorption Inhibitors	Ezetimibe / Zetia	10 mg – 1x daily	15-20%	Usually used in combo w/statin. Headache, rash.
Plant Stenols Plant Sterols	Benecol Take Control	3 servings daily 2 servings daily	14% 17%	Well tolerated

Triglyceride Lowering / HDL Raising Medications

If TG> 500, lower TG first, then reduce LDL

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Class / Action	Generic / Trade	Usual Daily Dose Range	Lowers TG	Considerations	
Fibrates or Fibric Acids Reduces liver lipogenesis	Fenofibrate/ Tricor Multiple brand formulations Gemfibrozil / Lopid*	48-145 mg 1x daily Please refer to individual package insert for dosing 600mg 2x daily	20-50%	Lowers LDL 5-20% Raise HDL 10-20% GI side effects, myopathy Avoid w/ severe renal or hepatic disease	
Nicotinic Acid Raise HDL/Lower TG Inhibits mobilization of free fatty acid	Niacin (immediate release)* NiaSpan (extended release) Niacin (sustained release)	1.5- 3 gms 1-2 gms	20-50%	Raise HDL 15-35% Flushing, hyperglycemia, hepatoxicity – monitor liver enzymes. Can take w/aspirin to < flushing	
Omega 3 Fatty Acid	Omega 3 Acid/ Lovaza	4 gm a day	45%	Raise HDL 9% - Primary use for TG > 500	
Combination Medic	Combination Medications				
Vytorin	Zetia + Simvistatin	Observe precautions of each component drug			

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Antihypertensive Medications

ACE and ARBs are preferred therapy if experiencing hypertension and albuminuria – If B/P not at goal with either of these agents, add a diuretic or other class. Do not use during pregnancy or in persons w/ renal or hepatic dysfunction. Start w/ low dose, gradually increase. If one class is not tolerated, the other should be substituted. For those treated with an ACE inhibitor, angiotensin receptor blocker, or diuretic, serum creatinine/estimated glomerular filtration rate and serum potassium levels should be monitored at least annually. ADA Standards CV Disease Risk Management

Class / Action	Generic / Trade Name	Usual Daily Dose	Frequency	Considerations
		Range		
	benazepril / Lotensin†	10 – 40 mg	1 x a day	Try to take same time each
ACE Inhibitors Angiotensin	captopril /Capoten*†	12.5 - 100 mg	2-3 x a day	day. Effects seen w/in 1 hr of admin, max effects in 6 hrs.
Converting	Enalopril/ Vasotec*†	2.5 - 40 mg	1-2 x a day	
Enzyme	Fosinopil / Monopril†	10- 40 mg	1 x a day	Side effects: Can cause cough (due to increased bradykinin)
Action - Block the conversion of AT-I to AT-II. Also stimulates release of nitric oxide causing vasodilation.	Lisinopril *† Prinivil Zestril Ramipril / Altace*† Moexipril / Univasc† Perindopril/Aceon‡ Perindopril/ Indapamide combo (Coversyl) Quinapril /Accupril† Trandolapril/ Mavik	10 – 40 mg 10 - 40 mg 2.5 – 10 mg 3.75 - 15 mg 2-16 mg 2 - 8 mg 0.625 - 2.5 mg 5 – 40 mg 1.0 – 4 mg 1-4 mg		 can try different med in same class. Also can cause fatigue, dizziness, hypotension. †These meds are also available as a combo w/ low dose HCTZ (hydrochlorothiazide). ‡These meds are also available as a combo w/ CCB (calcium channel blocker) usually amlodipine
	Verapamil combo (TARKA)	180 to 240 mg		
ARBs -Angiotensin Receptor Blockers Action -Block AT-I receptor which reduces aldosterone secretion and	Azilsartan/Edarbi Azilsartan/ Chlorthalidone combo (Edarbyclor)	40 - 80 mg 40 mg 12.5 - 25 mg	1 x daily	Try to take same time each day Side effects- Can cause dizziness, drowsiness, diarrhea, hyperkalemia,
vasoconstriction	Candesartan/Atacand†	8 – 32 mg		hypotension.
Vasoconstriction	Eprosartan/Teveten†	400 - 600 mg]	
	Irbesartan/ Avapro†	75 – 300 mg		†These meds are also
	Losartan / Cozaar*†	25 – 100 mg		available as a combo w/ low
	Olmesartan / Benicar†‡ Tribenzor (triple combo)	20 – 40 mg		dose HCTZ (hydrochlorothiazide).
	Telmisartan / Micardis	20 – 80 mg	1	‡ These meds are also
	Valsartan / Diovan†‡ Exforge HCT (triple combo)	80 – 320 mg		available as a combo w/ CCB (calcium channel blocker) usually amlodipine
	Valsartan/ Nebivolol combo (Byvalson)	80 mg 5 mg		

Class / Action	Generic / Trade Name	Usual Daily Dose Range	Frequency	Considerations
DRIs - Direct Renin Inhibitors -	Aliskiren / Tekturna†	150 – 160 mg	1 x daily	Generally well tolerated. †These meds are also available as a combo w/ low dose HCTZ (hydrochlorothiazide).

Beta Blockers are commonly prescribed as an add-on to other B/P meds for people with DM. Beta Blockers are beneficial for persons w/ concurrent cardiac problems and prevention of recurrent MI and heart failure. Caution in DM since Beta Blockers can cause hyperglycemia and mask hypoglycemia induced tachycardia (but do not block hypoglycemia related dizziness and sweating). Monitor B/P, heart rate, lipids and glucose.

Beta Blockers	Acebutolol / Sectral*	200 – 800 mg	2 x daily	Side Effects: Usually CNS related
в1- Selective	Atenolol / Tenormin*	25 – 100 mg	1 x daily	including sedation, dizziness,
Action: Blockade	Atenolol with	50 -100 mg	1 x daily	lightheaded .
β1 receptors &	Chlorthalidone/ Tenoretic	25 mg	1 x daily	
reduce cardiac	Betaxolol / Kerlone	5 – 10 mg	2 x daily	Watch for bradycardia,
output & kidney	Bisoprolol/ Zebeta†	2.5 – 10 mg		hypotension, depression and
renin activation.g	Metoprolol	25 – 100 mg	1 x daily	sexual dysfunction. Check heart
remin activation.g	tartate/Lopressor*†			rate each visit, adjust dose if HR
	Metoprolol succinate /	25 - 100 mg		<50.
	Toprol XL			
	Nebivolol/Bystolic	5 to 40 mg		Can cause heart block – review
				package insert for drug-drug
	Nebivolol with	5 mg		interactions. Watch for exercise
	Valsartan/ Byvalson	80 mg		intolerance. When stopping
Beta Blockers	Nadolol / Corgard*	40 - 120 mg	1 x daily	beta blockers, taper dose gradually. Use cautiously at
Non Selective	Nadolol with	40-80 mg		lowest dose.
Action: Blockades	Bendroflumethiazide	5 mg		lowest dose.
β1 & β2	Penbutolol / Levatol	10 - 40 mg	1 x daily	†These meds are also available
ρ- ω ρ-	Pindolol / Visken	10 – 40 mg	2 x daily	as a combo w/ low dose HCTZ
	Propanolol / Inderal*	40 – 160 mg	2 x daily	(hydrochlorothiazide).
	Inderal LA (extended)	60 – 180 mg	1 x daily	(injurational action)
	Timolol / Blocadren*	10 – 60 mg	2 x daily	
Combined α- and	Corvedilol / Coreg	6.25 – 50 mg	2 x daily	Same precautions as beta
β- Blockers	Coreg CR	20 – 80 mg	1 x daily	blockers.
	Labetalol / Normodyne*	100 – 2400 mg	2 x daily	

Diuretics are often used as adjunct therapy. Obtain baseline B/P, electrolytes, uric acid, glucose and lipids prior to starting and periodically. May require supplementation w/ magnesium and potassium.

Class / Action	Generic / Trade Name	Usual Daily Dose Range	Considerations
Thiazide Diuretics Action: cause diuresis and Hydrochlorathiazi HydroDIURIL Microzide	-	12.5 – 25 mg Most frequently prescribed	1 x daily in am with or w/out food Side effects: lyte imbalances; hypokalemia, hypomagnesemia,
decrease vascular resistance. (Many meds combined with this class)	Chlorthalidone / Clorpres* Metolazone / Zaroxolyn* Indapamide / Lozol*	12.5 – 25 mg 2.5 – 20 mg 1.2 – 2.5 mg	hyperuricemia, hyperglycemia, hyperlipidemia and hyper/hypocalcemia. S/S include muscle cramps, fatigue, dizziness and cardiac arrhythmias.

Class / Action	Generic / Trade Name	Usual Daily Dose Range	Considerations
Loop Diuretics (resistant HTN)	Furosemide/Lasix*	20 – 600 mg 2x day	Side Effects as above, but more intense. Need K ⁺ supplement.
,	Torsemide / Demadex* Bumetanide / Bumex*	2.5 – 200 mg 1x day 0.5 – 10 mg 2 x day	Used if GFR < 30 or if greater diuresis is needed
Potassium Sparing Diuretics	Amiloride / Midamor Triamterene / Dyrenium Spironolactone / Aldactone* Eplerenone / Inspra	5 – 20 mg 37.5 – 75 mg 25 – 100 mg 50 - 100 mg	1 x dayUsually combined with thiazide diuretic to balance1-2 x dayserum potassium. Alone, they do little to lower BP.

Calcium Channel Blockers are usually second or third line BP med for diabetes, since they have less impact on CVD. They may also be used for those who can't tolerate ACE or ARB Therapy.

Class / Action	Generic / Trade Name	Usual Daily Dose Range	Frequency	Considerations
Calcium Channel	Diltiazem immediate release*	30 – 360 mg	4 x day	Monitor BP, heart rate, liver enzymes and cardiac
Blocker	Diltiazem extended release*	420 400	1 // day	function a baseline and
Nondihydropyridine	Cardizem CD	120 – 480 mg	1 x day 1 x day	periodically.
Relaxes coronary	Tiazac Dilacar Diltia	120 – 540 mg	1 x day	periodically.
blood vessels to	Dilacor, Diltia Verapamil immediate release*	180 – 540 mg	1 X day	Take at the same time each
decrease heart rate and cardiac output.	Calan	80 -320 mg	3 x day	day (with meals if possible).
'	Verapamil sustained release*			
	Calan SR, Veralan	120 mg – 480 mg	1 -2 x day	Take in evening if
	Verapamil extended release*			experience drowsiness.
	Covera-HS	120 – 480 mg	1 x day	
	Verelan PM	100 – 400 mg		Side Effects: Watch for cardiac conduction
Calcium Channel	Amlodipine/Norvasc	2.5 – 10 mg	1 x day	
Blocker –	Felodipine / Plendil	2.5 – 10 mg	1 x day	abnormalities, bradycardia, CHF and edema.
Dihydropyridine Causes vasodilation	Isradipine controlled release	2.5 – 10 mg	1 x day	
and decreases	DynaCirc CR	20 60		Can cause peripheral edema
peripheral vascular	Nicardipine sustained release / Cardene SR	30 – 60 mg	2 x day	and constipation. Metabolized through
resistance.	Nifedipine long-acting*	30 – 120 mg	1 x day	CYP3A4, so review package
	Adalat CC /Procardia XL			insert for drug and food
	Nisoldipine / Sular	10 – 40 mg	1 x day	interactions (ie grapefruit).
α1 – Receptor Bl	ockers - Often used for p	ts with DM & ber	ign prosta	tic hypertrophy (BPH).
α1 – Receptor	Doxazoxin/Cardura*	1 – 8 mg	1 x day	Take at hs and low dose to
Blockers	Prazosin / Minipress*	2 – 20 mg	2 - 3 day	reduce risk of postural
Vasodilation	Terazosin/ Hytrin*	1 – 10 mg	1 – 2 day	hypotension/syncope.
	Terazosin/ Hytrin*		,	

α2 agonists- Not usually first line due to side effects. Effective in pts w/ renal disease, since does not compromise renal function.

α2 agonists –	Clonidine / Catapres*	0.1 to 0.8 mg	2 x day	Administer w/ diuretic.
Centrally act to	Methyldopa / Aldomet*	250 – 1000 mg	2-3 x day	Side effects: sedation, dry
block influence of				mouth, bradycardia
norepinephrine on				orthostatic hypotension,
the heart and				impotence. Do not stop
lower B/P				abruptly, can cause
IOWEI D/P				hypertensive crisis.

Neuropathy Medication for Diabetes

Prevention – Maintain glycemic control; quit smoking, alcohol reduction, exercise.

Pathogenetically Oriented Therapy

• Alpha lipoic acid 600 – 1,800 mg a day

Prescription Therapy:

1st line – Tricyclic Antidepressants (Amitriptyline, Nortriptyline, Desipramine)

- Calcium Channel Modulators (Gabapentin, Pregabalin)
- Serotonin Norepinephrine Reuptake Inhibitors (SNRI Venlafaxine, Duloxetine)

2nd Line - Topical Capsaicin Cream for localized pain – Apply 2-4 x daily for up to 8 wks

• Opioids (Tramadol, Oxycodone)

Reasons for Treatment Failure

- Dose too low
- Inadequate trial requires 2-8 weeks of treatment to observe symptom reduction
- Pt expecting elimination of symptoms only reduces symptoms by about 50%
- Incorrect diagnosis: If in doubt, refer to neurologist
- If patient does not respond or has adverse effects, change medication class
- In patient has some but inadequate relief, raise the dose and consider adding or changing meds.

References: Ziegler, D. Painful diabetic neuropathy. Diabetes Care 2009; 32 (Supp 2): S414-S419

Class	Generic / Trade	Usual Daily Dose	Comments	Side Effects/ Caution
Class	Name	Range	Comments	Side Lifects/ Caution
		_		= 1 1 1 5
1 st Line Agents	Amitriptyline / Elavil	25 – 100 mg*	Usually 1 st	Take 1 hour before sleep.
Tricyclic	N	Avg dose 75mg	choice	Side effects; dry mouth,
Antidepressants	Nortriptyline / Pamelor	25 - 150 mg*	Less sedating	tiredness, orthostatic
TCA	Designation /	(for burning mouth)	and	hypotension.
Improves	Desipramine /	25 – 150 mg*	anticholinergic	Caution: not for pts w/
neuropathy and	Norpramine	*Increase by 25mg weekly till		unstable angina (<6 mo),
depression		pain relieved		MI, heart failure, conduction system
depression		pairi relieveu		disorder.
Calairma Changail	Cabanantin / Naurantin	100 1 200mg TID	Improves	
Calcium Channel	Gabapentin/ Neurontin	100 - 1,200mg TID	Improves	Sedation, dizziness,
Modulators	Drogobolin / Lurico	50 - 200mg TID	insomnia, fewer drug	peripheral edema, wt gain Caution ; CHF, suicide risk,
	Pregabalin / Lyrica *FDA approved for	50 - 200mg mb	interactions	seizure disorder.
	neuropathy treatment		interactions	seizure disorder.
Serotonin	Duloxetine / Cymbalta	60 mg daily	Improves	Nausea, sedation, HTN,
	*FDA approved for	Start at 30 mg	depression,	constipation, dizziness,
INDIEDIDEDDIDE			,	•
Norepinephrine	neuropathy treatment	J	insomnia	dry mouth, blurred vision.
Reuptake Inhibitor	1	75 - 225 mg daily	insomnia	dry mouth, blurred vision. Caution : adjust dose for
	neuropathy treatment	_	insomnia	· · ·
Reuptake Inhibitor	neuropathy treatment	_	insomnia	Caution: adjust dose for
Reuptake Inhibitor SNRI	neuropathy treatment	_		Caution : adjust dose for renal insufficiency, do not
Reuptake Inhibitor SNRI 2 nd Line Agents	neuropathy treatment Venlafaxine/ Effexor	75 - 225 mg daily		Caution: adjust dose for renal insufficiency, do not stop abruptly, taper dose.
Reuptake Inhibitor SNRI	neuropathy treatment Venlafaxine/ Effexor Weak opioids	75 - 225 mg daily	Sedation, nausea prescribe stool so	Caution: adjust dose for renal insufficiency, do not stop abruptly, taper dose.
Reuptake Inhibitor SNRI 2 nd Line Agents	neuropathy treatment Venlafaxine/ Effexor Weak opioids Tramadol / Ultram	75 - 225 mg daily 50 – 400 mg	Sedation, nausea prescribe stool so Caution: abuse, s	Caution: adjust dose for renal insufficiency, do not stop abruptly, taper dose. constipation (always oftener)
Reuptake Inhibitor SNRI 2 nd Line Agents	neuropathy treatment Venlafaxine/ Effexor Weak opioids Tramadol / Ultram Strong opioids	75 - 225 mg daily 50 – 400 mg	Sedation, nausea prescribe stool so Caution: abuse, s	Caution: adjust dose for renal insufficiency, do not stop abruptly, taper dose. a, constipation (always oftener) suicide risk, short acting mmended for long term tx,
Reuptake Inhibitor SNRI 2 nd Line Agents	neuropathy treatment Venlafaxine/ Effexor Weak opioids Tramadol / Ultram Strong opioids	75 - 225 mg daily 50 – 400 mg 10 – 100 mg	Sedation, nausea prescribe stool so Caution: abuse, so opioids not recor can develop tole	Caution: adjust dose for renal insufficiency, do not stop abruptly, taper dose. a, constipation (always oftener) suicide risk, short acting mmended for long term tx,
Reuptake Inhibitor SNRI 2 nd Line Agents Opioids	neuropathy treatment Venlafaxine/ Effexor Weak opioids Tramadol / Ultram Strong opioids Oxycodone	75 - 225 mg daily 50 – 400 mg 10 – 100 mg 5%) Apply 2-4 x daily	Sedation, nausea prescribe stool so Caution: abuse, so opioids not record can develop tole y for up to 8 wks	Caution: adjust dose for renal insufficiency, do not stop abruptly, taper dose. a, constipation (always oftener) suicide risk, short acting mmended for long term tx, rance
Reuptake Inhibitor SNRI 2 nd Line Agents Opioids Local Treatment	neuropathy treatment Venlafaxine/ Effexor Weak opioids Tramadol / Ultram Strong opioids Oxycodone Capsaicin Cream (0.025)	75 - 225 mg daily 50 – 400 mg 10 – 100 mg 5%) Apply 2-4 x daily	Sedation, nausea prescribe stool so Caution: abuse, so opioids not record can develop tole of for up to 8 wks	Caution: adjust dose for renal insufficiency, do not stop abruptly, taper dose. constipation (always oftener) suicide risk, short acting mmended for long term tx, rance
Reuptake Inhibitor SNRI 2 nd Line Agents Opioids Local Treatment	neuropathy treatment Venlafaxine/ Effexor Weak opioids Tramadol / Ultram Strong opioids Oxycodone Capsaicin Cream (0.025) If above medications not	75 - 225 mg daily 50 - 400 mg 10 - 100 mg 5%) Apply 2-4 x daily effective, contraindic Paroxetine / Paxil	Sedation, nausea prescribe stool so Caution: abuse, so opioids not record can develop tole of for up to 8 wks	Caution: adjust dose for renal insufficiency, do not stop abruptly, taper dose. constipation (always oftener) suicide risk, short acting mmended for long term tx, rance e consider: Celexa