

“Organization or Clinic Name”

| Delegated Functions | Minimum Training and Experience |
|--|--|
| <p>Participate directly in the assessment and management of the adult patients with type 2 diabetes, hypertension, hyperlipidemia, and/or polypharmacy who are under the collaborative care of the clinical pharmacists and the delegating physicians.</p> <p><i>Care provided includes:</i></p> <ul style="list-style-type: none"> • Refer to and update as necessary the health and medical history. • Evaluate therapeutic regimen based on efficacy, safety, adverse effects, drug interactions, drug cost, patient preferences, and “Organization Name” Clinical Care Guidelines. • Collaborate in the medication management (initiate, modify, or discontinue) for the treatment of type 2 diabetes, hypertension, hyperlipidemia, and/or polypharmacy based on written protocols approved by physicians under the collaborative practice agreement. • Perform blood pressure measurement and diabetes foot screening including monofilament test. • Provide self-management education. Set and record self-management goals with patients. • Facilitate ordering of labs on behalf of physicians to assist in the management of type 2 diabetes, hypertension, and hyperlipidemia including A1c, urinary microalbumin, CHD profile, alanine aminotransferase (ALT), basic metabolic profile/comp metabolic panel. • Facilitate ordering of medical equipment on behalf of physicians including glucose meter, test strips, and lancets. • Facilitate referrals on behalf of physicians to type 2 diabetes education classes, diabetes eye exam, nutrition counseling as needed. • Document services provided in the electronic medical record <p><i>Communication with physicians:</i></p> | <p>Authority to assist in medical treatment and medications and to order diagnostic tests is derived from the delegation of that authority by the licensed physicians, who shall supervise the performance of those delegated functions, in accordance with the Michigan Public Health Code (1978 P.A. 368), including, but not limited to Section 16109(2); 16215; 17708(2).</p> <p><i>Qualifications:</i></p> <ul style="list-style-type: none"> • Pharmacists practicing at “organization or practice name” under a Collaborative Drug Therapy Management Agreement (CDTM) must satisfy <u>all</u> of the qualifications listed below: <ul style="list-style-type: none"> ➤ Licensed by the State of Michigan. ➤ Completion of a Doctorate of Pharmacy (PharmD) degree. ➤ Completion of a Pharmacy Practice Residency accredited by the American Society of Health System Pharmacists (ASHP) <u>or</u> three (3) years of relevant clinical experience in the specific practice area covered by the CDTM Agreement <u>or</u> Certification from the Board of Pharmacy Specialties. ➤ Completion of on-site training in direct patient care by shadowing delegating physicians for a minimum of 4 full clinic days upon hire. <p><i>Competency Assessment:</i></p> <ul style="list-style-type: none"> • Formal evaluation of each pharmacist functioning under a CDTM Agreement must occur “enter timeframe”, and each evaluation must review a minimum of xx cases evenly distributed across each condition/diagnosis managed, or all cases if less than xx. • Supervising physicians must be directly involved in the review of the pharmacist’s practice. • All evaluations must be forwarded to “” for review. • Assessment by physician on performing blood pressure and diabetes foot screening/monofilament test upon hire. |

| | |
|--|--|
| <ul style="list-style-type: none"> • The pharmacist will be responsible for consulting with the patient's physician in a timely fashion if any of the following incidents occur. The physician will evaluate the patient as needed: <ul style="list-style-type: none"> ➤ Pharmacotherapy efforts are failing despite following treatment outlined in written protocols. ➤ Major side effects become apparent. ➤ Any acute medical problem is observed, either new or an exacerbation. ➤ Critical laboratory values are observed. • The pharmacist should routinely communicate with the patient's physician. <ul style="list-style-type: none"> ➤ Physicians will co-sign all prescriptions. ➤ Physicians will co-sign all lab orders. ➤ Lab results must be sent to the physician's inbox. ➤ Physician is responsible for all abnormal results. ➤ Notes regarding initiation of new medications, which a pharmacist may make only if consistent with the appropriate written protocol and the CDTM Agreement, must be forwarded to the physician's inbox as agreed upon in advance. ➤ Notes with dosing changes within written protocols may be forwarded to the physician's inbox at physician discretion. ➤ Real-time discussions of the patient's needs or issues outside of the written protocols as needed. | |
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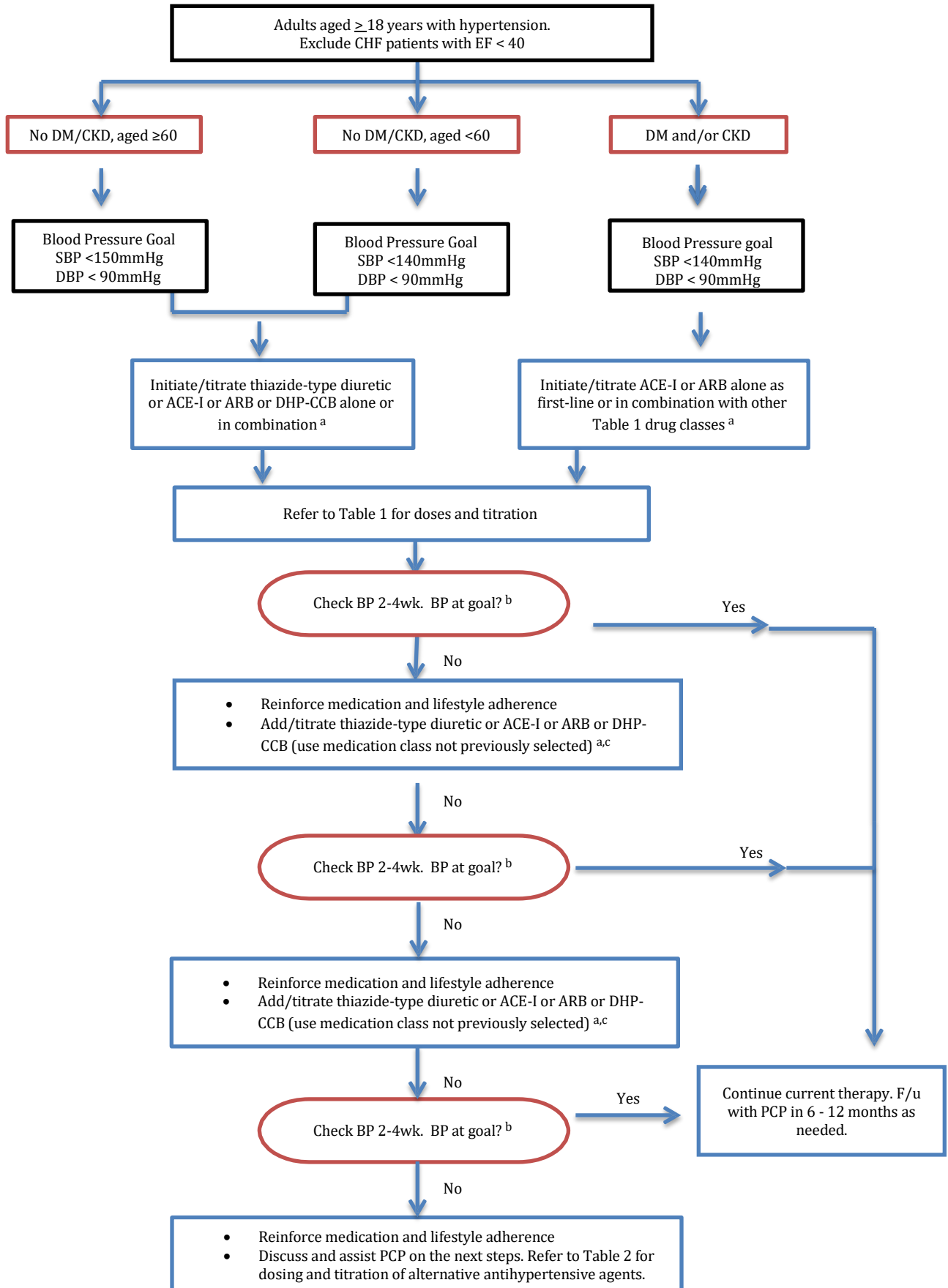
The licensed physicians signed below are working in collaboration with <>, Pharm.D. and agree to delegate and supervise the medical functions defined in the Scope of Services document.

Authority to prescribe medical treatment and medications and to order diagnostic tests is derived from the delegation of that authority by the licensed physicians signed below who shall supervise the performance of those delegated functions, in accordance with the Michigan Public Health Code (1978 P.A. 368), including, but not limited to Section 16109(2);16215; 17708(2).

<>, MD _____ Date _____

Add additional lines for physician signatures or use separate document for each physician.

Therapeutic Management of HTN



- ^a PCP will be notified via notes in "EMR";PCP will co-sign prescriptions
- ^b Consult with PCP as needed
- ^c In patients with CAD and/or CHF, consider beta blocker

Table 1: First Line Antihypertensive Medications

| Drug Class and Generic Name | Brand Name | Usual Dosage Regimens | | | |
|---|-------------------|------------------------------|--------------|--------------|--------------|
| Thiazide Diuretics | | | | | |
| hydrochlorothiazide | | 12.5mg.daily | 25mg daily | 50 mg daily | |
| chlorthalidone | | | | 25 mg daily | |
| indapamide | | 1.25 mg daily | | 2.5 mg daily | |
| ACE Inhibitors | | | | | |
| benazepril | Lotensin | 5 mg daily | 10 mg daily | 20 mg daily | 40 mg daily |
| quinapril | Accupril | 10 mg daily | | 20 mg daily | 40 mg daily |
| lisinopril | Prinivil/Zestril | 5 mg daily | 10 mg daily | 20 mg daily | 40 mg daily |
| enalapril | Vasotec | 2.5 mg daily | 5 mg daily | 10 mg daily | 10 mg BID |
| fosinopril | Monopril | 10 mg daily | | 20 mg daily | 40 mg daily |
| trandolapril | Mavik | 1 mg daily | 2 mg daily | 4 mg daily | |
| moexipril | Univasc | | | 7.5 mg daily | 15 mg daily |
| ramipril | Altace | 2.5 mg daily | 5 mg daily | 10 mg daily | |
| perindopril | Aceon | | | 4 mg daily | 8 mg daily |
| Angiotensin Receptor Blockers | | | | | |
| telmisartan | Micardis | | | 40 mg daily | 80 mg daily |
| olmesartan | Benicar | | | 20 mg daily | 40 mg daily |
| valsartan | Diovan | 80 mg daily | 160 mg daily | 320 mg daily | |
| irbesartan | Avapro | | | 150 mg daily | 300 mg daily |
| candesartan | Atacand | 8 mg daily | 16 mg daily | 32 mg daily | |
| eprosartan | Teveten | | | 400 mg daily | 600 mg daily |
| losartan | Cozaar | 50 mg daily | 100 mg daily | 50 mg BID | |
| Dihydropyridine Calcium Channel Blockers | | | | | |
| amlodipine | Norvasc | | | 5 mg daily | 10 mg daily |
| felodipine | Plendil | | | 5 mg daily | 10 mg daily |
| nifedipine CC | Adalat CC | 30 mg daily | 60 mg daily | 90 mg daily | |
| | Procardia XL | | | | |
| nisoldipine | Sular | 20 mg daily | 30 mg daily | 40 mg daily | |
| isradipine | Dynacirc CR | | | 2.5 mg BID | 5 mg BID |



Table 2: Alternative Antihypertensive Medications

| Drug Class and Generic Name | Brand Name | Usual Dosage Regimens | | | |
|---|--------------------|------------------------------|---------------------|--------------|--------------|
| Aldosterone Antagonists | | | | | |
| spironolactone | Aldactone | 25 mg daily | 50 mg daily | | |
| eplerenone | Inspra | 50 mg daily | 50 mg BID | | |
| Potassium Sparing/Thiazide Combination Diuretics | | | | | |
| amiloride /HCTZ | | | 5 mg/50 mg daily | | |
| triamterene/HCTZ | | | 37.5 mg/25 mg daily | | |
| spironolactone/HCTZ | | | 25 mg/25 mg daily | | |
| Beta Blockers | | | | | |
| atenolol | Tenormin | 25 mg daily | 50 mg daily | 100 mg daily | |
| metoprolol tartrate | Lopressor | | 50 mg BID | 100 mg BID | |
| propranolol | Inderal LA | | 40 mg BID | 80 mg BID | |
| propranolol | Inderal XL | 60 mg daily | 80 mg daily | 120 mg daily | |
| labetalol | Trandate/Normodyne | 100 mg BID | 200 mg BID | 300 mg BID | |
| nadolol | Corgard | 40 mg daily | 80 mg daily | 160 mg daily | |
| metoprolol succinate | Toprol XL | | 100 mg daily | 200 mg daily | |
| nebivolol | Bystolic | 2.5 mg daily | 10-20 mg daily | 40 mg daily | |
| carvedilol | Coreg | 3.125 BID | 12.5-25 mg BID | 25 BID | |
| | Coreg CR | 10mg daily | 20 mg daily | 40 mg daily | 80 mg daily |
| Non-Dihydropyridine Calcium Channel Blockers | | | | | |
| verapamil SR | Calan SR | | | 240 mg daily | |
| diltiazem | Cardizem | 30 mg QID | 60 mg TID | 60 mg QID | 90 mg TID |
| diltiazem CD | Cardizem CD | 120 mg daily | 180 mg d | 240 mg d | 300 mg daily |
| Central Acting Agents | | | | | |
| clonidine | Catapres | 0.1 mg BID | 0.2 mg BID | 0.3 mg BID | |
| clonidine patch | Catapres-TTS | 0.1 mg/24 hr | 0.2 mg/24 hr | 0.3 mg/24 hr | |
| methyldopa | | 250 mg TID | 500 mg TID | 1000 mg TID | |
| Vasodilators | | | | | |
| isosorbide dinitrate | | 10 mg TID | 20 mg TID | 40 mg TID | |
| hydralazine | | 25 mg TID | 50 mg TID | 100 mg TID | |
| Alpha Blockers | | | | | |
| doxazosin | Cardura | 1mg daily | 2mg daily | 4mg daily | |
| terazosin | Hytrin | 1mg daily | 2mg daily | 5mg daily | |
| prazosin | Minipress | 1mg BID | 2mg BID | 5mg BID | |

Table 2: Alternative Antihypertensive Medications, continued

| Renin Inhibitors | | | |
|-------------------------|----------|--------------|-------------|
| aliskiren | Tekturna | 150 mg daily | 300mg daily |
| Other Diuretics | | | |
| furosemide | Lasix | 20 mg BID | 40 mg BID |
| toremide | Demadex | 5 mg daily | 10 mg daily |

Monitoring Parameters:

Diuretics

- Check creatinine/K⁺ as part of Basic or Comp Profile within 2 - 4 weeks of starting treatment or increasing dose
- Use cautiously in patients with gout (can increase uric acid concentrations). Notify provider if patient develops symptoms of gout.

ACE-I/ARB:

- Check creatinine/K⁺ as part of Basic or Comp Profile within 2 - 4 weeks of starting treatment or increasing dose
- May cause hyperkalemia; monitor closely in patients at high risk (K⁺>4.5 mEq/L, renal insufficiency, on other drugs that can cause hyperkalemia such as spironolactone, drospirenone, potassium supplements or diuretic combinations)

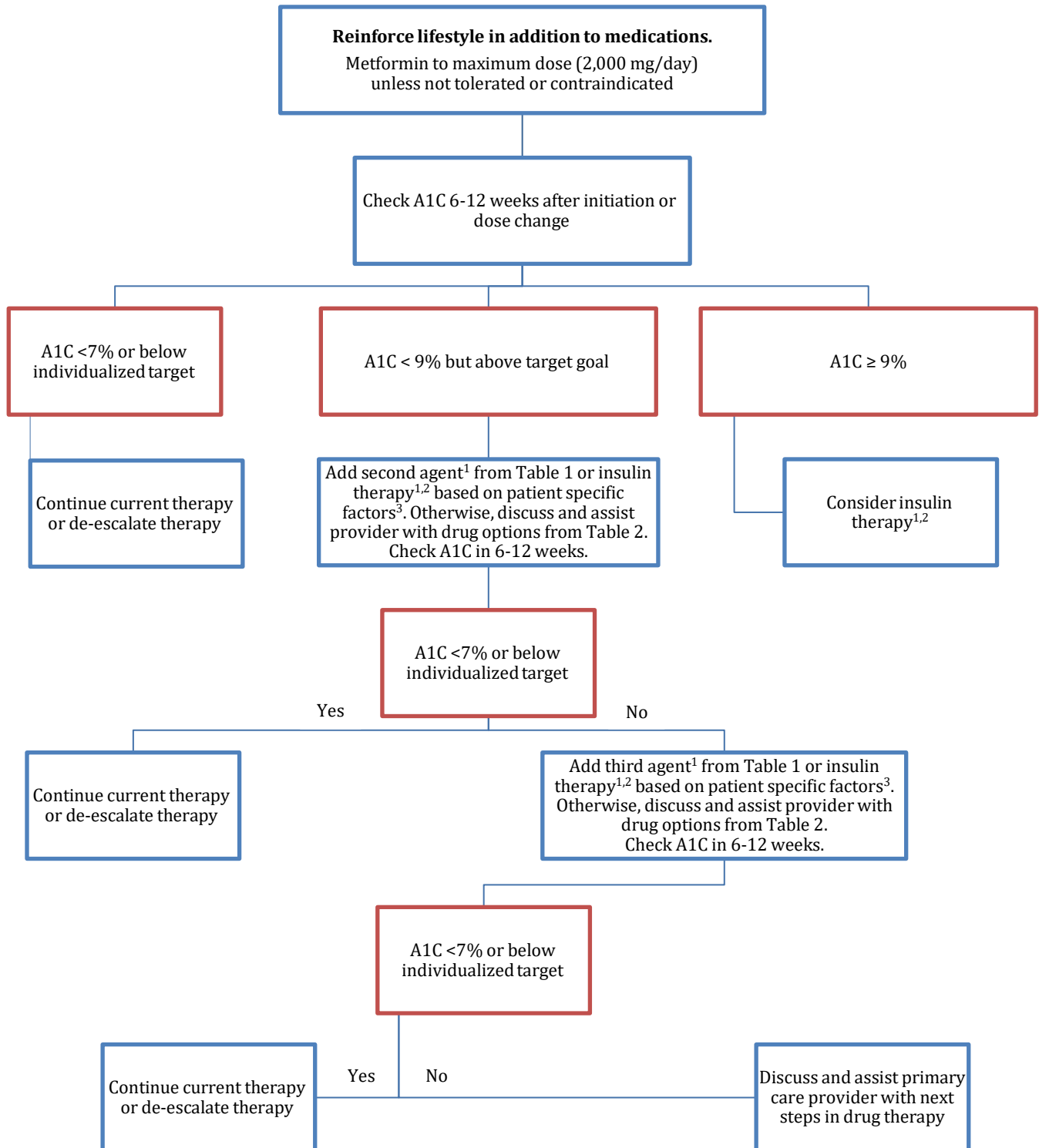
Beta-Blockers:

- Monitor HR (can cause bradycardia, especially in patients also taking verapamil, diltiazem, or digoxin). Notify provider if patient's HR drops to < 50 or symptomatic.

Calcium-channel Blockers (DHP CCB):

- Monitor peripheral edema. Notify provider if patient develops peripheral edema.

Therapeutic Management of Type 2 Diabetes



¹ PCP will be notified via notes in "EMR"; PCP will co-sign prescriptions

² Refer to Insulin Initiation and Insulin Adjustment protocols

³ Patient specific factors may include hypoglycemia risk, weight, side effects, and drug costs

Table 1

| Generic (Brand Name) | Strength (mg) | Initial Dose (mg) | Max Daily Dose (mg) | Usual Daily Dose (mg) |
|--|----------------------|-----------------------------------|------------------------------------|----------------------------------|
| <i>Biguanide</i> | | | | |
| Metformin (Glucophage) | 500, 850, 1000 | 500 or 850 once daily | 2550 | 1500-2000 divided (BID) |
| Metformin extended release (Glucophage XR/Fortamet) | 500, 750 | 500 daily with evening meal | 2000, 2500mg for Fortamet | 1500-2000 daily or divided |
| <i>DPP-4 inhibitors</i> | | | | |
| Sitagliptin(J anuvia) | 25, 50, 100 | 50-100 daily | 100 | 100 daily |
| Saxagliptin (Onglyza) | 2.5, 5 | 2.5-5 daily | 5 | 2.5-5 daily |
| Linagliptin (Trajenta) | 5 | 5 daily | 5 | 5 daily |
| Alogliptin (Nesina) | 6.25, 12.5, 25 | 25 daily | 25 | 25 daily |
| <i>GLP-1 agonists</i> | | | | |
| Liraglutide (Victoza) | Multidose pen | 0.6 mg once daily | 1.8 mg once daily | 1.8 mg once daily |
| Albiglutide (Tanzeum) | 30mg, 50mg | 30mg once weekly | 50mg once weekly | 30-50mg once weekly |
| Dulaglutide (Trulicity) | 0.75mg, 1.5mg | 0.75mg once weekly | 1.5mg once weekly | 0.75mg-1.5mg once weekly |
| Exenatide (Byetta) | 5mcg, 10mcg | 5 mcg twice daily – 10 mcg BID | 10mcg | 10mcg BID |
| Exenatide Extended-Release (Bydureon) | 2mg | 2mg once weekly | 2mg | 2mg once weekly |
| Lixisenatide ¹ (Adlyxin) | 10mcg, 20mcg | 10mcg once daily | 20mcg once daily | 20mcg once daily |
| <i>Sulfonylureas (Second Generation)</i> | | | | |
| Glimepiride (Amaryl) | 1, 2, 4 | 1-2 daily | 8 | 4 daily |
| Glipizide (Glucotrol) | 5, 10 | 2.5, 5 daily | 40 | 10 - 20 divided (BID) |
| Glipizide ER (Glucotrol XL) | 2.5, 5, 10 | 5 daily | 20 | 5 - 20 daily or divided (BID) |
| Glyburide ² (Diabeta, Micronase) | 1.25, 2.5, 5 | 2.5-5 daily | 20 | 5 - 20 daily or divided (BID) |

Footnotes:

1. Expected to be available late 2016
2. Use glyburide with caution (higher risk of prolonged hypoglycemia in older adults and those with renal impairment)

Table 2

| Generic (Brand Name) | Strength (mg) | Initial Dose (mg) | Max Daily Dose (mg) | Usual Daily Dose (mg) |
|---|----------------------|--------------------------|----------------------------|------------------------------|
| <i>Thiazolidinedione</i> Pioglitazone (Actos) | 15, 30, 45 | 15-30 daily | 45 | 15 - 45 daily |
| <i>Alpha-glucosidase inhibitor</i> Acarbose (Precose) | 25, 50, 100 | 25 daily with meal | 300 | 50 - 100 TID before meals |
| Miglitol (Glyset) | 25, 50, 100 | 25 daily with meal | 300 | 25 - 100 TID |
| <i>Non-sulfonylurea insulin secretagogues</i> Repaglinide (Prandin) | 0.5, 1.2 | 0.5 with meals | 16 | 0.5 - 4 AC to QID |
| Nateglinide (Starlix) | 60, 120 | 60–120 with meal | 360 | 60 - 120 AC |
| <i>Sodium-glucose cotransporter 2 (SGLT-2) inhibitors</i> Empagliflozin(Jardiance) | 10, 25 | 10 daily | 25 | 10-25 daily |
| Canagliflozin (Invokana) | 100, 300 | 100 daily | 300 | 300 daily |
| Dapagliflozin (Farxiga) | 5, 10 | 5 daily | 10 | 5 in AM |

Table 3: Combination agents

| Generic (Brand Name) | Strength (mg) | Initial Dose (mg) | Max Daily Dose (mg) | Usual Daily Dose (mg) |
|--|--------------------------------|---|----------------------------|--|
| Glipizide/metformin (Metaglip) | 2.5/250, 2.5/500, 5/500 | 2.5/250 daily- 2.5/500 BID or 2.5/500-5/500 BID | 10/2000 or 20/2000 | Titrate to effective dose (not over max) |
| Glyburide/metformin(Glucovance) | 1.25/250, 2.5/500, 5/500 | 1.25/250 daily- BID or 2.5/500- 5/500 BID | 10/2000 or 20/2000 | 2.5/500 – 10/1000 daily-BID |
| Repaglinide/metformin (PrandiMet) | 1/500, 2/500 | 1/500 BID within 15 min prior to meal | 10/2500 | Titrate to effective dose (not over max) |
| Pioglitazone/metformin (Actoplus Met) | 15/500, 15/850 | 15/500-15/850 daily-BID | 45/2550 | Titrate to effective dose (not over max) |
| Pioglitazone/metformin ER (Actoplus Met XR) | 15/1000, 30/1000 | 15/1000- 30/1000 daily | 45/2000 | Titrate to effective dose (not over max) |
| Sitagliptin/metformin (Janumet) | 50/500, 50/1000 | 50/500 BID or 50/1000 BID | 100/2000 | Titrate to effective dose (not over max) |

| | | | | |
|--|------------------------------------|--|----------|--|
| Sitagliptin/metformin ER (Janumet XR) | 50/500, 50/1000, 100/1000 | 50/500 BID or 50/1000 BID or 100/1000 daily | 100/2000 | Titrate to effective dose (not over max) |
| Linagliptin/metformin (Jentaducto) | 2.5/500, 2.5/850, 2.5/1000 | 2.5/500 BID or 2.5/850 BID or 2.5/1000 BID | 5/2000 | 2.5-5/2000 mg per day |
| Linagliptin/metformin ER (Jentaducto XR) | 2.5/1000, 5/1000 | 2.5/1000 daily or 5/1000 daily | 5/1000 | 2.5-5/1000 mg per day |
| Saxagliptin/metformin ER (Kombiglyze XR) | 2.5/1000, 5/500, 5/1000 | 2.5/1000 daily 5/500 daily or 5/1000 daily | 5/2000 | 2.5-5/2000 mg per day |
| Alogliptin/metformin (Kazano) | 12.5/500, 12.5/1000 | 12.5/500 BID ^c or 12.5/1000 BID | 25/2000 | 25/2000 mg per day |
| Canagliflozin/metformin (Invokamet) | 50/500, 150/500, 50/1000, 150/1000 | 50/500 BID ^c or 150/500 BID or 50/1000 BID or 150/1000 BID | 300/2000 | 100-300/2000 mg per day |
| Dapagliflozin/metformin ER (Xigduo XR) | 5/500, 10/500, 5/1000, 10/1000 | 5/500 daily-BID ^c or 5/1000 daily-BID ^d or 10/500 daily or 10/1000mg daily | 10/2000 | 5-10/2000 mg per day |
| Empagliflozin/metformin (Synjardy) | 5/500, 5/1000, 12.5/500, 12.5/1000 | 5/500 BID or 5/1000 BID or 12.5/500 BID or 12.5/1000 BID | 25/2000 | 10-25/2000 mg per day |

Insulin Initiation Protocol

- 1) Start with NPH, detemir, or glargine
- 2) The choice may vary depending on concerns regarding endogenous insulin secretion, need for meal-time insulin coverage, cost and convenience.
- 3) All patients started on insulin should demonstrate use of a glucometer and be educated on recognition and treatment of hypoglycemia.

NPH, detemir, or glargine insulin

- a. Continue metformin +/- sulfonylurea depending on preprandial glucose.
- b. Add 10-20 units of NPH, detemir, or glargine insulin daily
- c. Then increase insulin by 10% or 2-4 units every 3 days until attaining the goal of a fasting blood glucose < 130 mg/dL without hypoglycemia.
- d. Once fasting glucose is at goal, check post-prandial glucoses; if > 180 mg/dL consider adding either rapid or regular insulin before meals.

NPH or detemir insulin (BID)

- a. Continue metformin, discontinue sulfonylurea.
- b. Add 5-10 units of NPH or detemir insulin at breakfast and dinner (or bedtime).
- c. Then increase insulin by 10% or at least 2 units every 3 days until attaining the goal of a fasting blood glucose and pre-dinner glucose < 130 mg/dL without hypoglycemia.
- d. Once fasting glucose is at goal, check post-prandial glucoses; if > 180 mg/dL consider adding either rapid or regular insulin before meals.

Premixed insulin (intermediate & short-acting or rapid-acting mixtures)

- a. Continue metformin, discontinue sulfonylurea.
- b. Add 10 units of pre-mixed insulin at breakfast and dinner.

- c. Then increase pre-breakfast and/or pre-dinner insulin by 10% or at least 2 units every 3 days until attaining the goal of a fasting and pre-meal glucose level < 130 mg/dL without hypoglycemia.

Table 4: Available insulin preparations

| Type | Onset | Peak | Duration |
|--|---------------|---------------|------------------------------------|
| Rapid Acting | | | |
| Lispro (Humalog) (100 u/mL and 200 u/mL) | 15-20 minutes | 0.5-2.5 hours | 3-5 hours |
| Aspart (Novolog) | | | |
| Glulisline (Apidra) | | | |
| Regular | | | |
| Humulin R | 30-60 minutes | 2-3hours | 3-6 hours |
| Novolin R | | | |
| Intermediate Acting | | | |
| Insulin NPH (Humulin N) | 2-4 hours | 4-10 hours | 10-16 hours |
| Insulin NPH (Novolin N) | | | |
| Pre-Mixed | | | |
| Insulin NPH/insulin regular (Novolin 70/30) | 30-60 minutes | 2-8 hours | 10-18 hours |
| Insulin NPH/insulin regular (Humulin 70/30) | | | |
| insulin aspart- protamine/insulin aspart (Novolog Mix 70/30) | 15 minutes | 2-10 hours | 10-18 hours |
| insulin lispro-protamine- insulin lispro (Humalog Mix 75/25) | | | |
| Long Acting | | | |
| Glargine (Lantus, Basaglar 100 u/mL) | 1-2 hours | No peak | 20-24 hours |
| Glargine (Toujeo 300 u/mL) | 6 hours | No peak | Up to 24 hours (dose dependent) |
| Detemir (Levemir) | 3-4 hours | 6-8 hours | 6-23 hours |
| Ultra Long Acting | | | |

| | | | |
|----------------------------|--------|-------------------------|----------------|
| Insulin degludec (Tresiba) | 1 hour | Minimal peak at 9 hours | Up to 42 hours |
|----------------------------|--------|-------------------------|----------------|

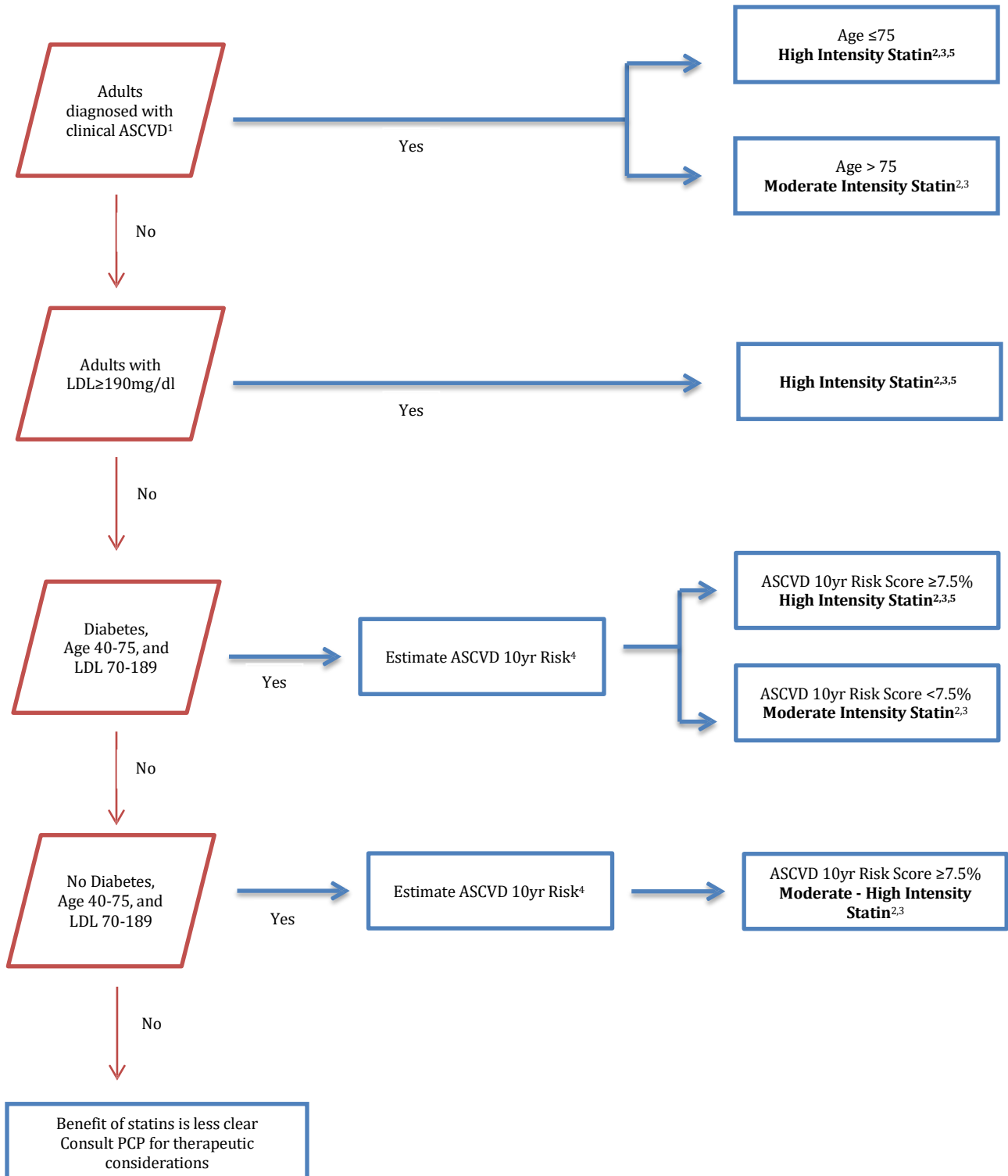
Insulin Adjustment Protocol

| | |
|--|---|
| If overnight or before breakfast glucoses are above/below target, | adjust the supper or bedtime dose of NPH or glargine |
| If before lunch glucoses are above/below target, | adjust the breakfast dose of Regular or Rapid Acting Insulin |
| If before supper glucoses are above/below target, | adjust the breakfast dose of NPH or adjust the lunch dose of Regular or Rapid Acting Insulin |
| If before bedtime glucoses are above/below target, | adjust the supper dose of Regular or Rapid Acting Insulin |
| If fasting glucose levels are significantly higher than bedtime levels (i.e., twice as high), consider nocturnal hypoglycemia. Have the patient check glucose level around 3:00am for 2 days during the week. If the glucose levels are: | |
| - normal in the middle of the night, | increase the NPH supper dose |
| - low in the middle of the night, | decrease the NPH supper dose. |

Screening Tests and Follow-up

1. Blood pressure: refer to Therapeutic Management of HTN Protocol
2. Diabetes foot screening: PharmD will perform diabetes foot screening as part of annual requirement. If abnormal, PharmD will consult with PCP.
3. When a PharmD identifies a need, PCP will sign off on glucose meter (must be seen by a physician/NP/PA in the past 6 months), glucose test strips, lancets, and control solution.
4. Facilitate ordering of a referral for diabetes eye exam every 1 – 2 years.
5. Facilitate ordering of UMA/Cr. For initial screening, abnormal test will be repeated within 3-6 months, negative test will be repeated annually. Patients on ACE-I or ARB will be excluded.

Therapeutic Management of Hyperlipidemia



¹ ASCVD definition: ACS, history of MI, stable/unstable angina, coronary or other arterial revascularization, stroke, TIA, PAD.

² Refer to Table 1 for statin dosing

³ PCP will be notified via notes in "EMR"; PCP will co-sign prescriptions

⁴ ASCVD risk calculator is online at <http://tools.cardiosource.org/ASCVD-Risk-Estimator/>

⁵ If not a candidate for high-intensity statin, then moderate-intensity statin

Table 1: Statin Dosing

| High-Intensity Statin Therapy | Moderate-Intensity Statin Therapy |
|--|---|
| Daily dose lowers LDL-C on average, by approximately $\geq 50\%$ | Daily dose lowers LDL-C on average, by approximately 30% to $<50\%$ |
| Atorvastatin (40)-80mg Rosuvastatin 20 (40) mg | Atorvastatin 10 (20) mg Rosuvastatin (5) 10 mg Simvastatin 20-40 mg Pravastatin 40 (80) mg Lovastatin 40 mg <i>Fluvastatin XL 80 mg</i> Fluvastatin 40 mg BID <i>Pitavastatin 2-4 mg</i> |

***Bolded** treatments were evaluated in RCTs and demonstrated a reduction in major cardiovascular events

**Italicized* treatments are approved by the FDA but not tested in RCTs

*Modified Table 5 in 2013 ACC/AHA guidelines

Monitoring Abnormal Baseline Alanine Aminotransferase (ALT)

Careful follow-up of ALT is indicated for those with known liver disease, risk factors for liver disease, or in patients who are on other potentially hepatotoxic medications. For other patients:

- If baseline ALT is normal, no further monitoring is required.
- If baseline ALT is mildly abnormal (over upper limit of normal but $< 5 \times$ upper limit of normal): reassess ALT after 6-12 weeks of statin treatment for stability. Consider monitoring annually for stability if baseline ALT is abnormal.

Abnormal baseline ALT can frequently improve with statin therapy.