



Antihyperlipidemics –

Proprotein Converatase Subtilisin Kexin type 9 (PCSK-9) Inhibitors

WA.PHAR.39 Antihyperlipidemics PCSK9 Inhibitors

Related medical policies:

- Antihyperlipidemics – Apolipoprotein B Synthesis Inhibitors: **lomitapide mesylate (JUXTAPID®)**
- Antihyperlipidemics - Apolipoprotein B Synthesis Inhibitors: **mipomersen sodium (KYNAMRO®)**

Background:

PCSK-9 is an enzyme that acts as part of the cholesterol homeostasis process in humans. PCSK 9 binds to the epidermal growth factor-like domain of the LDL receptor on human hepatocytes. This binding forces LDL receptors to remain in the “open” confirmation, which facilitates their destruction, limiting the ability of the liver to remove LDL cholesterol from circulation. Humans with loss of function mutations in PCSK 9 have notable lower LDL-C concentrations, and somewhat lower risk of cardiovascular disease.

Medical necessity

Drug	Medical Necessity
Alirocumab (PRALUENT®)	Alirocumab may be considered medically necessary when: <ul style="list-style-type: none"> • Used for the treatment of primary heterozygous familial hypercholesterolemia or clinical atherosclerotic cardiovascular disease
Evolocumab (REPATHA®)	Evolocumab may be considered medically necessary when: <ul style="list-style-type: none"> • Used for the treatment of adults with primary hyperlipidemia (including heterozygous familial hypercholesterolemia) • Used for the treatment of homozygous familial hypercholesterolemia (HoFH) • Used for the treatment of atherosclerotic cardiovascular disease (ASCVD) • Used to reduce risk of myocardial infarction, stroke, and coronary revascularization in adults with established cardiovascular disease (CVD)

Clinical policy:

Drug	Clinical Criteria (Initial Approval)
Alirocumab (PRALUENT®)	<p>For Heterozygous Familial Hypercholesterolemia (HeFH)</p> <ol style="list-style-type: none"> 1. Diagnosis of Heterozygous Familial Hypercholesterolemia defined by ONE of the following: <ol style="list-style-type: none"> a. Clinical diagnosis using diagnostic tools such as US MedPed, Simon Broome Register Group, or Dutch Lipid Panel

	<ul style="list-style-type: none"> b. Age ≥ 20 and LDL ≥ 190mg/dL on maximally tolerated statin therapy prior to adding a PCSK9 Inhibitor c. Age < 20 and LDL ≥ 160mg/dL on maximally tolerated statin therapy prior to adding a PCSK9 Inhibitor d. Genetic typing confirming presence of familial hypercholesterolemia genes <p>2. Concomitant therapy with the highest-tolerated statin regimen for at least 6 consecutive weeks; AND LDL has not achieved at least 50% reduction from baseline or remains ≥ 100mg/dL</p> <ul style="list-style-type: none"> a. Highest-tolerated dose is defined as ONE of the following: <ul style="list-style-type: none"> i. FDA labeled maximum dose for high-intensity statin therapy (e.g. atorvastatin 40 to 80mg and rosuvastatin 20 to 40mg) ii. Treatment with maximally tolerated statin therapy has been ineffective, contraindicated, or not tolerated. <ul style="list-style-type: none"> 1. A statin is considered ineffective if patients are not able to tolerate high-intensity or have not had an LDL-C reduction of at least 50% while on a maximally tolerated dose of statin with or without concurrent trial of ezetimibe for at least 6 weeks. 2. Statin intolerance is defined as the inability to tolerate at least two different statin medications at the lowest FDA-approved starting dose when other potential causes of muscle symptoms have been maximally managed or ruled out <p>3. Greater than or equal to (\geq) 18 years of age</p> <p>4. Prescribed by or in consultation with a provider specializing in lipid management (e.g. cardiologist, lipid specialist, or endocrinologist)</p> <p>5. NONE of the following:</p> <ul style="list-style-type: none"> a. Used in combination with another proprotein convertase subtilisin/kexin type 9 (PCSK9) inhibitor b. Used in combination with Kynamro (mipomersen) <p>Approve for 6 months</p> <p>Criteria (Reauthorization)</p> <ul style="list-style-type: none"> 1. Continues to receive the maximum tolerated dose of statin unless contraindicated or intolerant to statin therapy 2. Documentation of continued clinical benefit, (e.g. at least a 30% reduction in LDL from initiation of PCSK9 Inhibitor or achievement of patient-specific goal) <p>Approve for 12 months</p> <p>Clinical Criteria (Initial Approval)</p>
--	---

For Primary Hypercholesterolemia with Atherosclerotic Cardiovascular Disease (ASCVD):

1. History of clinical atherosclerotic cardiovascular diseases (ASCVD), including at least **ONE** of the following:
 - a. myocardial infarction (MI), presumed to be of atherosclerotic origin
 - b. acute coronary syndrome (ACS), presumed to be of atherosclerotic origin
 - c. severe angina, presumed to be of atherosclerotic origin
 - d. stroke, presumed to be of atherosclerotic origin
 - e. transient ischemic attack (TIA), presumed to be of atherosclerotic origin
 - f. coronary revascularization procedures, presumed to be of atherosclerotic origin
 - g. peripheral arterial disease, presumed to be of atherosclerotic origin
2. Concomitant therapy with the highest-tolerated statin regimen for at least 6 consecutive weeks; **AND** LDL has not achieved at least 50% reduction from baseline or remains ≥ 100 mg/dL
 - a. Highest-tolerated dose is defined as **ONE** of the following:
 - i. FDA labeled maximum dose for high-intensity statin therapy (e.g. atorvastatin 40 to 80mg and rosuvastatin 20 to 40mg)
 - ii. Treatment with maximally tolerated statin therapy has been ineffective, contraindicated, or not tolerated.
 1. A statin is considered ineffective if patients are not able to tolerate high-intensity or have not had an LDL-C reduction of at least 50% while on a maximally tolerated dose of statin with or without concurrent trial of ezetimibe for at least 6 weeks.
 2. Statin intolerance is defined as the inability to tolerate at least two different statin medications at the lowest FDA-approved starting dose when other potential causes of muscle symptoms have been maximally managed or ruled out
3. Greater than or equal to (\geq) 18 years of age
4. Prescribed by or in consultation with a provider specializing in lipid management (e.g. cardiologist, lipid specialist, or endocrinologist)
5. **NONE** of the following:
 - a. Used in combination with another proprotein convertase subtilisin/kexin type 9 (PCSK9) inhibitor
 - b. Used in combination with Kynamro (mipomersen)

Approve for 6 months

	<p>Criteria (Reauthorization)</p> <ol style="list-style-type: none"> 1. Continues to receive the maximum tolerated dose of statin unless contraindicated or intolerant to statin therapy 2. Documentation of continued clinical benefit, (e.g. at least a 30% reduction in LDL from initiation of PCSK9 Inhibitor or achievement of patient-specific goal) <p>Approve for 12 months</p>
<p>Drug</p>	<p>Clinical Criteria (Initial Approval)</p>
<p>Evolocumab (REPATHA®)</p>	<p>For Heterozygous Familial Hypercholesterolemia (HeFH)</p> <ol style="list-style-type: none"> 1. Diagnosis of Heterozygous Familial Hypercholesterolemia defined by ONE of the following: <ol style="list-style-type: none"> a. Clinical diagnosis using diagnostic tools such as US MedPed, Simon Broome Register Group, or Dutch Lipid Panel b. Age ≥ 20 and LDL ≥ 190mg/dL on maximally tolerated statin therapy prior to adding a PCSK9 Inhibitor c. Age < 20 and LDL ≥ 160mg/dL on maximally tolerated statin therapy prior to adding a PCSK9 Inhibitor d. Genetic typing confirming presence of familial hypercholesterolemia genes 2. Concomitant therapy with the highest-tolerated statin regimen for at least 6 consecutive weeks; AND LDL has not achieved at least 50% reduction from baseline or remains ≥ 100mg/dL <ol style="list-style-type: none"> a. Highest-tolerated dose is defined as ONE of the following: <ol style="list-style-type: none"> i. FDA labeled maximum dose for high-intensity statin therapy (e.g. atorvastatin 40 to 80mg and rosuvastatin 20 to 40mg) ii. Treatment with maximally tolerated statin therapy has been ineffective, contraindicated, or not tolerated. <ol style="list-style-type: none"> 1. A statin is considered ineffective if patients are not able to tolerate high-intensity or have not had an LDL-C reduction of at least 50% while on a maximally tolerated dose of statin with or without concurrent trial of ezetimibe for at least 6 weeks. 2. Statin intolerance is defined as the inability to tolerate at least two different statin medications at the lowest FDA-approved starting dose when other potential causes of muscle symptoms have been maximally managed or ruled out 3. Greater than or equal to (\geq) 18 years of age 4. Prescribed by or in consultation with a provider specializing in lipid management (e.g. cardiologist, lipid specialist, or endocrinologist) 5. NONE of the following:

- a. Used in combination with another proprotein convertase subtilisin/kexin type 9 (PCSK9) inhibitor
- b. Used in combination with Kynamro (mipomersen)

Approve for 6 months

Criteria (Reauthorization)

- 1. Continues to receive the maximum tolerated dose of statin unless contraindicated or intolerant to statin therapy
- 2. Documentation of continued clinical benefit, (e.g. at least a 30% reduction in LDL from initiation of PCSK9 Inhibitor or achievement of patient-specific goal)

Approve for 12 months

Clinical Criteria (Initial Approval)

For Primary Hypercholesterolemia with Atherosclerotic Cardiovascular Disease (ASCVD):

- 1. History of clinical atherosclerotic cardiovascular diseases (ASCVD), including at least **ONE** of the following:
 - a. myocardial infarction (MI), presumed to be of atherosclerotic origin
 - b. acute coronary syndrome (ACS), presumed to be of atherosclerotic origin
 - c. severe angina, presumed to be of atherosclerotic origin
 - d. stroke, presumed to be of atherosclerotic origin
 - e. transient ischemic attack (TIA), presumed to be of atherosclerotic origin
 - f. coronary revascularization procedures, presumed to be of atherosclerotic origin
 - g. peripheral arterial disease, presumed to be of atherosclerotic origin
- 2. Concomitant therapy with the highest-tolerated statin regimen for at least 6 consecutive weeks; **AND** LDL has not achieved at least 50% reduction from baseline or remains $\geq 100\text{mg/dL}$
 - a. Highest-tolerated dose is defined as **ONE** of the following:
 - i. FDA labeled maximum dose for high-intensity statin therapy (e.g. atorvastatin 40 to 80mg and rosuvastatin 20 to 40mg)
 - ii. Treatment with maximally tolerated statin therapy has been ineffective, contraindicated, or not tolerated.
 - 1. A statin is considered ineffective if patients are not able to tolerate high-intensity or have not had an LDL-C reduction of at least 50% while on a maximally tolerated dose of statin with or without concurrent trial of ezetimibe for at least 6 weeks.

2. Statin intolerance is defined as the inability to tolerate at least two different statin medications at the lowest FDA-approved starting dose when other potential causes of muscle symptoms have been maximally managed or ruled out
3. Greater than or equal to (\geq) 18 years of age
4. Prescribed by or in consultation with a provider specializing in lipid management (e.g. cardiologist, lipid specialist, or endocrinologist)
5. **NONE** of the following:
 - a. Used in combination with another proprotein convertase subtilisin/kexin type 9 (PCSK9) inhibitor
 - b. Used in combination with Kynamro (mipomersen)

Approve for 6 months

Criteria (Reauthorization)

1. Continues to receive the maximum tolerated dose of statin unless contraindicated or intolerant to statin therapy
2. Documentation of continued clinical benefit, (e.g. at least a 30% reduction in LDL from initiation of PCSK9 Inhibitor or achievement of patient-specific goal)

Approve for 12 months

For Homozygous Familial Hypercholesterolemia (HoFH):

1. Clinical diagnosis of Heterozygous Familial Hypercholesterolemia defined by **ONE** of the following:
 - a. history of untreated LDL \geq 500mg/dL with either a xanthoma before 10 years of age
 - b. evidence of heterozygous familial hypercholesterolemia in both parents;
 - c. genetic typing confirming presence of Familial Hypercholesterolemia genes
2. Concomitant therapy with the highest-tolerated statin regimen for at least **6** consecutive weeks or is statin intolerant; AND LDL remains \geq 130mg/dL
 - a. Highest-tolerated dose is defined as ONE of the following:
 - i. FDA labeled maximum dose for high-intensity statin therapy (e.g. atorvastatin 40 to 80mg and rosuvastatin 20 to 40mg)
 - ii. Treatment with maximally tolerated statin therapy has been ineffective, contraindicated, or not tolerated.
 1. A statin is considered ineffective if patients are not able to tolerate high-intensity or have not had an LDL-C reduction of at least 50% while on a maximally tolerated dose of

statin with or without concurrent trial of ezetimibe for at least 6 weeks.

2. Statin intolerance is defined as the inability to tolerate at least two different statin medications at the lowest FDA-approved starting dose when other potential causes of muscle symptoms have been maximally managed or ruled out
3. Greater than or equal to (\geq) 13 years of age
4. Prescribed by or in consultation with a cardiologist, endocrinologist or lipid specialist
5. **NONE** of the following:
 - a. Used in combination with another proprotein convertase subtilisin/kexin type 9 (PCSK9) inhibitor
 - b. Used in combination with Juxtapid (Iomitapide)
 - c. Used in combination with Kynamro (mipomersen)

Approve for 6 months

Criteria (Reauthorization)

1. Continues to receive the maximum tolerated dose of statin unless contraindicated or intolerant to statin therapy
2. Documentation of continued clinical benefit, (e.g. at least a 30% reduction in LDL from initiation of PCSK9 Inhibitor or achievement of patient-specific goal)

Approve for 12 months

For reducing the risk of myocardial infarction, stroke, and coronary revascularization in adults with established cardiovascular disease (CVD):

1. Established cardiovascular diseases (CVD), including at least **ONE** of the following:
 - a. myocardial infarction (MI), presumed to be of atherosclerotic origin
 - b. acute coronary syndrome (ACS), presumed to be of atherosclerotic origin
 - c. severe angina, presumed to be of atherosclerotic origin
 - d. stroke, presumed to be of atherosclerotic origin
 - e. transient ischemic attack (TIA), presumed to be of atherosclerotic origin
 - f. coronary revascularization procedures, presumed to be of atherosclerotic origin
 - g. peripheral arterial disease, presumed to be of atherosclerotic origin

2. Concomitant therapy with the highest-tolerated statin regimen for at least 6 consecutive weeks; AND LDL has not achieved at least 50% reduction from baseline or remains $\geq 100\text{mg/dL}$
 - a. Highest-tolerated dose is defined as ONE of the following:
 - i. FDA labeled maximum dose for high-intensity statin therapy (e.g. atorvastatin 40 to 80mg and rosuvastatin 20 to 40mg)
 - ii. Treatment with maximally tolerated statin therapy has been ineffective, contraindicated, or not tolerated.
 1. A statin is considered ineffective if patients are not able to tolerate high-intensity or have not had an LDL-C reduction of at least 50% while on a maximally tolerated dose of statin with or without concurrent trial of ezetimibe for at least 6 weeks.
 2. Statin intolerance is defined as the inability to tolerate at least two different statin medications at the lowest FDA-approved starting dose when other potential causes of muscle symptoms have been maximally managed or ruled out
3. Greater than or equal to (\geq) 18 years of age
4. Prescribed by or in consultation with a cardiologist, endocrinologist or lipid specialist
5. NONE of the following:
 - a. Used in combination with another proprotein convertase subtilisin/kexin type 9 (PCSK9) inhibitor
 - b. Used in combination with Juxtapid (Iomitapide)
 - c. Used in combination with Kynamro (mipomersen)

Approve for 6 months

Criteria (Reauthorization)

1. Continues to receive the maximum tolerated dose of statin unless contraindicated or intolerant to statin therapy
2. Documentation of continued clinical benefit, (e.g. at least a 30% reduction in LDL from initiation of PCSK9 Inhibitor or achievement of patient-specific goal)

Approve for 12 months

Dosage and quantity limits

Policy: PCSK-9 Inhibitors

Last Updated 04/18/2018

Drug Name	Dose and Quantity Limits
Evolocumab (REPATHA®) 140mg	#2 syringes/pens per 28-days
Evolocumab (REPATHA®) 420mg	#1 pens per 28-days
Alirocumab (PRALUENT®) 75mg	#2 syringes/pens per 28-days

Definitions

Term	Description
High-Intensity Statin Therapy	rosuvastatin (Crestor®) 20mg or 40mg atorvastatin 80mg atorvastatin 40mg if down-titrating from atorvastatin 80mg due to intolerance symptoms
Lowest Starting Daily Doses (Statins)	rosuvastatin (Crestor®) 5mg atorvastatin 10mg simvastatin 10mg lovastatin 20mg pravastatin 40mg fluvastatin 40mg pitavastatin (Livalo®) 2mg
Statin Intolerance	<p>Documented trial and failure of at least two statins after ruling out hypothyroidism, changes in physical activity and exercise, and potential drug-drug interactions, due to pre-specified intolerance symptoms [see below] that began or increased during statin therapy and stopped when statin therapy was discontinued. Qualification of at least two statins is: one statin must be at lowest starting daily dose [see below] and a different statin may be at any dose.</p> <p>If patient is on combination therapy, such as a fibrate or niacin, tapering of fibrate or niacin while maintaining statin therapy is required to establish statin intolerance.</p> <p>Rhabdomyolysis determined to be caused by any statin at any dose, after ruling out all other potential causes including drug-drug interactions, will be considered as a contraindication to statins as a class. Patients with history of rhabdomyolysis caused by statins must be managed by lipid specialists, and may be considered eligible for PCSK9 Inhibitors on a case-by-case basis.</p> <p>Patients who have failed to meet criterion 3 in medical policy may be managed on non-daily statin therapy if able to demonstrate that they are on maximally-tolerated therapy and can maintain dose while on PCSK9 Inhibitor.</p>
Pre-Specified Intolerance Symptoms	Myopathy or myalgia (muscle pain, ache, or weakness without CK elevation) Myositis (muscle symptoms with increased CK levels)
Diagnosis of ASCVD	Acute coronary syndrome, or a history of myocardial infarction, stable or unstable angina, coronary or other arterial revascularization, stroke, transient ischemic attack, or peripheral arterial disease presumed to be of atherosclerotic origin

References

1. Stone NJ, Robinson JG, Lichtenstein AH, et al. 2013 ACC/AHA guideline on the treatment of blood cholesterol to reduce atherosclerotic cardiovascular risk in adults: a report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines. *Circulation*. 2014 Jun 24;129(25 Suppl 2):S1-45.
2. Craig EM. Clinical Review BLA 125522 Repatha (evolocumab). Center for Drug Evaluation and Research (CDER). Food and Drug Administration (FDA). 2015 Aug 24.
3. Rosenson RS, Baker SK, Jacobson TA, Kopecky SL, Parker BA, The National Lipid Association's Muscle Safety Expert Panel. An assessment by the Statin Muscle Safety Task Force: 2014 update. *J Clin Lipidol*. 2014 May-Jun;8(3 Suppl):S58-71.
4. Cho L, Rocco M, Colquhoun D, Sullivan D, Rosenson RS, Dent R, Xue A, Scott R, Wasserman SM, Stroes E. Design and rationale of the GAUSS-2 study trial: a double-blind, ezetimibe-controlled phase 3 study of the efficacy and tolerability of evolocumab (AMG 145) in subjects with hypercholesterolemia who are intolerant of statin therapy. *Clin Cardiol*. 2014 Mar;37(3):131-9.
5. Guyton JR, Bays HE, Grundy SM, Jacobson TA; The National Lipid Association Statin Intolerance Panel. An assessment by the Statin Intolerance Panel: 2014 update. *J Clin Lipidol* 2014; 8 (3 Suppl): S72-81.
6. Hopkins PN1, Toth PP, Ballantyne CM, Rader DJ. Familial hypercholesterolemias: prevalence, genetics, diagnosis and screening recommendations from the National Lipid Association Expert Panel on Familial Hypercholesterolemia. *J Clin Lipidol*. 2011 Jun;5(3 Suppl):S9-17.
7. Jacobson TA, Ito MK, Maki KC, Orringer CE, Bays HE, Jones PH, McKenney JM, Grundy SM, Gill EA, Wild RA, Wilson DP, Brown WV. National lipid association recommendations for patient-centered management of dyslipidemia: part 1--full report. *J Clin Lipidol*. 2015 Mar-Apr;9(2):129-69.
8. Cuchel, M, Bruckert, E, Ginsberg, HN, et al. Homozygous familial hypercholesterolaemia: new insights and guidance for clinicians to improve detection and clinical management. A position paper from the Consensus Panel on Familial Hypercholesterolaemia of the European Atherosclerosis Society. *European heart journal*. 2014;35:2146-57. PMID: 25053660
9. Sabatine, MS, Giugliano, RP, Keech, AC, et al. Evolocumab and Clinical Outcomes in Patients with Cardiovascular Disease. *The New England journal of medicine*. 2017 May 04;376(18):1713-22. PMID: 28304224
10. Repatha™ [prescribing Information]. Thousand Oaks, CA: Amgen; September 2015
11. Raal, FJ, Honarpour, N, Blom, DJ, et al. Inhibition of PCSK9 with evolocumab in homozygous familial hypercholesterolaemia (TESLA Part B): a randomised, double-blind, placebo-controlled trial. *Lancet*. 2015 Jan 24;385(9965):341-50. PMID: 25282520
12. Stone, NJ, Robinson, JG, Lichtenstein, AH, et al. 2013 ACC/AHA guideline on the treatment of blood cholesterol to reduce atherosclerotic cardiovascular risk in adults: a report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines. *Journal of the American College of Cardiology*. 2014 Jul 1;63(25 Pt B):2889-934. PMID: 24239923
13. Goldberg, AC, Hopkins, PN, Toth, PP, et al. Familial hypercholesterolemia: screening, diagnosis and management of pediatric and adult patients: clinical guidance from the National Lipid Association Expert Panel on Familial Hypercholesterolemia. *Journal of clinical lipidology*. 2011;5:S1-8. PMID: 21600525
14. Robinson, JG. Management of familial hypercholesterolemia: a review of the recommendations from the National Lipid Association Expert Panel on Familial Hypercholesterolemia. *J Manag Care Pharm*. 2013;19:139-49. PMID: 23461430
15. Nordestgaard, BG, Chapman, MJ, Humphries, SE, et al. Familial hypercholesterolaemia is underdiagnosed and undertreated in the general population: guidance for clinicians to prevent coronary heart disease: consensus

- statement of the European Atherosclerosis Society. *European heart journal*. 2013;34:3478-90a. PMID: 23956253
16. Cannon, CP, Blazing, MA, Giugliano, RP, et al. Ezetimibe Added to Statin Therapy after Acute Coronary Syndromes. *The New England journal of medicine*. 2015 Jun 3. PMID: 26039521
 17. Lloyd-Jones, DM, Morris, PB, Ballantyne, CM, et al. 2016 ACC Expert Consensus Decision Pathway on the Role of Non-Statin Therapies for LDL-Cholesterol Lowering in the Management of Atherosclerotic Cardiovascular Disease Risk: A Report of the American College of Cardiology Task Force on Clinical Expert Consensus Documents. *Journal of the American College of Cardiology*. 2016 Mar 28. PMID: 27046161
 18. Nissen, SE, Stroes, E, Dent-Acosta, RE, et al. Efficacy and Tolerability of Evolocumab vs Ezetimibe in Patients With Muscle-Related Statin Intolerance: The GAUSS-3 Randomized Clinical Trial. *United States*, 2016. p. 1580-90.
 19. Moriarty, PM, Jacobson, TA, Bruckert, E, et al. Efficacy and safety of alirocumab, a monoclonal antibody to PCSK9, in statin-intolerant patients: design and rationale of ODYSSEY ALTERNATIVE, a randomized phase 3 trial. *Journal of clinical lipidology*. 2014 Nov-Dec;8(6):554-61. PMID: 25499937
 20. U.S. Food and Drug Administration. Advisory committee briefing document on alirocumab (BLA 125559). [cited 6/18/2015]; Available from: <http://www.fda.gov/downloads/AdvisoryCommittees/CommitteesMeetingMaterials/Drugs/EndocrinologicalandMetabolicDrugsAdvisoryCommittee/UCM449865.pdf>.
 21. Mampuya, WM, Frid, D, Rocco, M, et al. Treatment strategies in patients with statin intolerance: the Cleveland Clinic experience. *American heart journal*. 2013 Sep;166(3):597-603. PMID: 24016512
 22. Guyton, JR, Bays, HE, Grundy, SM, Jacobson, TA, The National Lipid Association Statin Intolerance, P. An assessment by the Statin Intolerance Panel: 2014 update. *Journal of clinical lipidology*. 2014 May-Jun;8(3 Suppl):S72-81. PMID: 24793444
 23. Stroes, ES, Thompson, PD, Corsini, A, et al. Statin-associated muscle symptoms: impact on statin therapy- European Atherosclerosis Society Consensus Panel Statement on Assessment, Aetiology and Management. *European heart journal*. 2015 Feb 18. PMID: 25694464
 24. Kemper, AR, Coeytaux, R, Sanders, GD, et al. Disease-Modifying Antirheumatic Drugs (DMARDs) in Children With Juvenile Idiopathic Arthritis (JIA). 2011. PMID: 22091470
 25. Zetia [package insert]. Whitehouse Station, NJ: Merck & Co., Inc.; August 2013.
 26. Marks, D, Thorogood, M, Neil, HA, Humphries, SE. A review on the diagnosis, natural history, and treatment of familial hypercholesterolaemia. *Atherosclerosis*. 2003;168:1-14. PMID: 12732381