Educational Objectives

**Volume I – Basic Lipid and Lipoprotein Metabolism, Diagnosis and Treatment of Dyslipidemia**
- Discuss and implement the National Cholesterol Education Program Adult Treatment Panel (NCEP ATP) III Guidelines;
- Explain lipoprotein metabolism and its role in the pathogenesis of atherosclerosis;
- Describe genetic disorders affecting lipoprotein metabolism and their molecular etiology;
- Outline current issues and approaches to global CV risk assessment;
- Manage non-lipid risk factors for dyslipidemia including hypertension, obesity, and cigarette smoking;
- Identify the essential features of the therapeutic lifestyle changes approach to reducing the risk for coronary heart disease (CHD);
- Recognize the role of drug therapy in the management of dyslipidemia;
- Discuss mechanism of action, pharmacokinetics, side effects, and efficacy of pharmacological therapy.

**Volume II – Management of Cardiometabolic Risk, Biomarkers of Atherosclerosis, Epidemiology and Statistics, Clinical Trials**
- Identify the complexities of cardiometabolic risk-management in patients with the metabolic syndrome;
- Evaluate the use of biomarkers in the prevention and treatment of atherosclerosis;
- Discuss epidemiologic and statistical evidence related to cardiovascular disease risk;
- Discuss clinical trials and their role in lipid and lipoprotein treatment in cardiovascular prevention.

**Volume III – Complex Case Management and Advanced Pharmacology**
- Identify the management of dyslipidemia in special populations based on gender, culture, and disease variables;
- Review experimental therapies utilized to modify dyslipidemias;
- Compare alternate therapies and treatments of dyslipidemia in various populations;
- Discuss the impact of dyslipidemia solutions on chronic illnesses.

**Volume IV – Vascular Biology, Advanced Lipid Metabolism and Lipoprotein Biochemistry**
- Recognize the role of macrophages and lymphocytes in atherogenesis;
- Examine the role of rheology in atherosclerosis coronary artery disease;
- Describe gene transfer in atherogenesis;
- Examine the role of rheology in atherosclerosis coronary artery disease;
- Recognize the role of macrophages and lymphocytes in atherogenesis;
- Discuss clinical trials and their role in lipid and lipoprotein treatment in cardiovascular prevention.