



Figure 5.9 Gender-, APOE-, CYP2D6-, and CYP3A4/5-related effects of Lipo Esar + Atorvastatin on blood cholesterol levels in patients with hypercholesterolemia.

with dementia, the effects of sardilipin are very similar to those observed in patients with chronic dyslipidemia, suggesting that the lipid-lowering properties of sardilipin are *APOE*-dependent.^{5,10,11,23,189,190,195}

5.6.1.2 E-JUR-94013 (DefenVid®)

E-JUR-94013 (DefenVid®) is an LF derived from the fish *Trachurus trachurus*, with anti-inflammatory activity and powerful immune-enhancing properties in cases of immunodeficiency, microbial infections and/or diseases in which there is a functional compromise of the immune system.¹⁹¹⁻¹⁹³ We investigated the effects of 1-month treatment with DefenVid (750 mg day⁻¹) in a group of 1149 patients with CNS disorders (mean age = 49.94 ± 22.06 years, range: 1-98 years; 621 females: age = 51.71 ± 20.90 years, range: 2-98 years; 528 males: age = 47.87 ± 23.19 years, range: 1-89 years). DefenVid significantly modified white blood cell (WBC) numbers in a differential fashion, decreasing neutrophils ($p < 0.02$), increasing lymphocytes ($p < 0.02$), monocytes ($p < 0.02$), and eosinophils ($p < 0.05$), and not affecting basophils (Figures 5.10 and 5.11). The effect of DefenVid is immunomodulatory due to the fact that in cases with high WBC numbers the general tendency is to reduce the excess of WBC, whereas in cases with low levels of WBC DefenVid tends to increase WBC, approaching normal levels (Figures 5.10 and 5.11).