**Case Study Assignment**

**Comprehensive Case Study on COPD, Heart Failure, Hypertension, and Diabetes Mellitus**

M. K. is a 45-year-old female measuring 5'5" and weighing 225 lbs. M. K. has a history of smoking about 22 years along with a poor diet. She has a history of type II diabetes mellitus along with primary hypertension. M. K. has recently been diagnosed with chronic bronchitis. Her current symptoms include chronic cough, more severe in the mornings with sputum, light-headedness, distended neck veins, excessive peripheral edema, and increased urination at night. Her current medications include Lotensin and Lasix for the hypertension along with Glucophage for the type II diabetes mellitus. The following are lab findings that are pertinent to this case:

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| **Vitals** |
| BP | 158/98 mm Hg |
| **CBC** |
| Hematocrit | 57% |
| Glycosylated hemoglobin (HbA1c) | 7.3 % |
| **Arterial Blood Gas Assessment** |
| PaCO₂ | 52 mm Hg |
| PaO₂ | 48 mm Hg |
| **Lipid Panel** |
| Cholesterol | 242 mg/dL |
| HDL | 32 mg/dL |
| LDL | 173 mg/dL |
| Triglycerides | 184 mg/dL |

For your signature assignment, compose a 2- to 3-page case analysis, written in APA format with a title page and at least 3 references, with one non-Internet reference. Organize your analysis with headings that thoroughly answer the prompt question. Support your opinions with evidence from your readings and research.

1. According to the lipid panel, what other condition is M. K. at risk for? According to this case study, what other medications should be given and why? What additional findings correlate for both hypertension and type II diabetes mellitus?