Technology: Prevention and treatment of atherosclerosis by reducing carbamylation of LDL or the effects of carbamylated LDL

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Abstract The present invention provides a method of determining whether an individual is at risk for atherosclerosis, comprising the step of measuring the level of cLDL and/or autoantibody to cLDL in a sample obtained from this individual. The invention further discloses a method of reducing carbamylation in an individual with a monomeric amino acid or other enzymatic or non-enzymatic inhibitors of carbamylation. The instant invention also provides a method to decrease the level of cLDL by direct elimination of cLDL from the blood or plasma of an individual. The invention also provides a method of treating or preventing atherosclerosis in an individual by inhibiting aggregation and/or deposition of cLDL in the individual.