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#### (54) METHODS FOR THE DIAGNOSIS, PROGNOSIS AND TREATMENT OF METABOLIC SYNDROME

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514/44

#### (57) ABSTRACT

The present invention provides methods for detecting susceptibility to metabolic syndrome. In particular, the presence of differences in at least one of the following genes; microsomal triglyceride transfer protein (MTP), fatty acid binding protein 2 (FABP2), annexin A5 (ANXA5), pyruvate dehydrogenase (lipoamide) alpha 2 (PDHA2), CDP-diacylglycerol synthase (phosphatidate cytidylyltransferase) 1 (CDS 1), and glycerol kinase 2 (GK2) serves as a prognostic and diagnostic indicator of metabolic syndrome. Furthermore, metabolic syndrome can be treated by regulating the levels of MTP, FABP2, ANXA5, PDHA2, CDS1, and GK2.

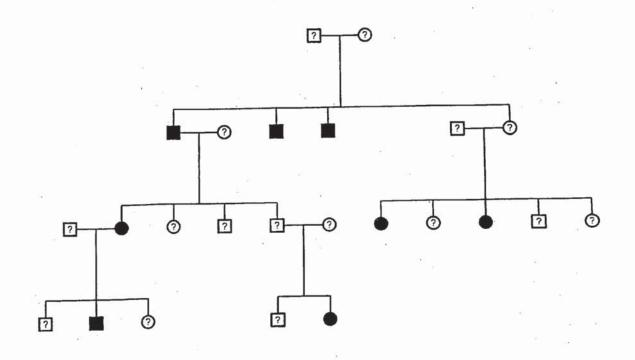
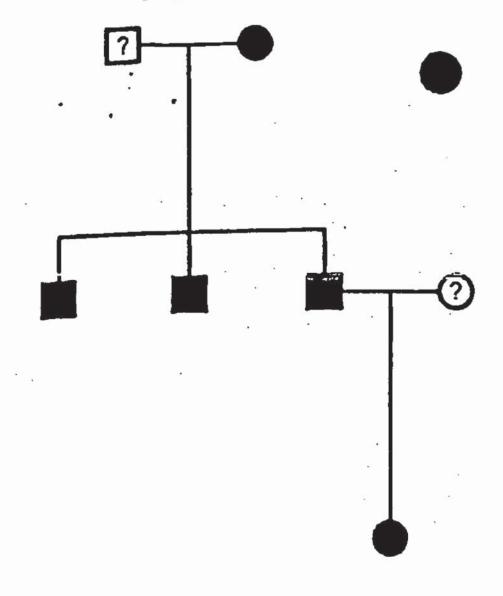


FIGURE 1A

R Α 4 Μ Find authenticated court documents without watermarks at <u>docketalarm.com</u>.



# FIGURE 1B

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**R M** Find authenticated court documents without watermarks at <u>docketalarm.com</u>.

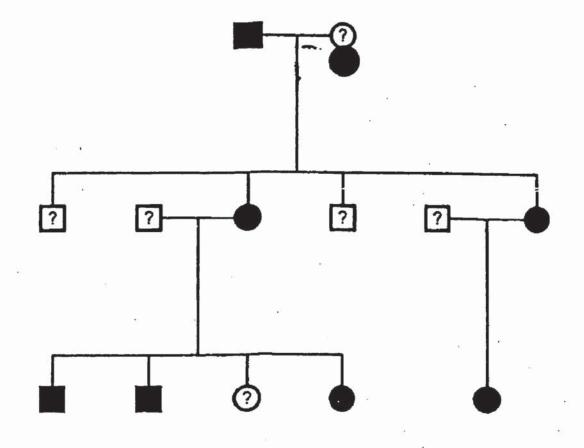
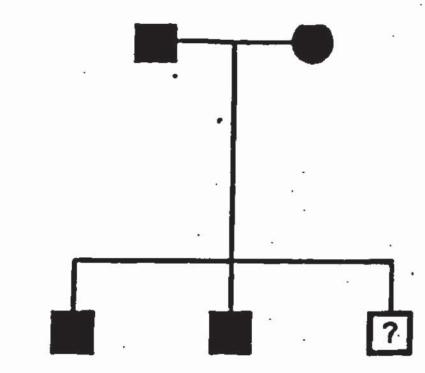


FIGURE 1C

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FIGURE 1D

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