

Combined effects of cholesterol reduction and apolipoprotein A-I expression on atherosclerosis in LDL receptor deficient mice

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References

1. Moncada,S., Martin,J., and Higgs,A. 1993. Symposium on regression of atherosclerosis. *Eur J Clin Invest* 23:385-398.
2. Gotto,A.M. 1997. Cholesterol management in theory and practice. *Circulation* 96:4424-4430.
3. Grundy,S.M., Balady,G.J., Criqui,M.H., Fletcher,G., Greenland,P., Hiratzka,L.F., Houston-Miller,N., Kris-Etherton,P., Krumholz,H.M., LaRosa,J. *et al.* 1998. Primary prevention of coronary heart disease: Guidance from framingham: A statement for healthcare professionals from the AHA task force on risk reduction. *Circulation* 97:1876-1887.
4. Gordon,D.J. and Rifkind,B.M. 1989. High-density lipoproteins--the clinical implications of recent studies. *N Engl J Med* 321:1311-1316.
5. Goldbourt,U., Yaari,S., and Medalie,J.H. 1997. Isolated low HDL cholesterol as a risk factor for coronary heart disease mortality A 21-year follow-up of 8000 men. *Arterioscler Thromb Vasc Biol* 17:107-113.
6. Tall,A.R. 1990. Plasma high density lipoproteins. Metabolism and relationship to atherogenesis. *J Clin Invest* 86:379-384.
7. Vega,G.L. and Grundy,S.M. 1996. Hypoalphalipoproteinemia (low high density lipoprotein) as a risk factor for coronary heart disease. *Curr.Opin.Lipidol.* 7:209-216.
8. Badimon,J.J., Badimon,L., and Fuster,V. 1990. Regression of atherosclerotic lesions by high density lipoprotein plasma fraction in the cholesterol-fed rabbit. *J Clin Invest* 85:1234-1243.
9. Miyazaki,A., Sakuma,S., Morikawa,W., Takiue,T., Miake,F., Terano,T., Sakai,M., Hakamata,H., Sakamoto,Y., Naito,M. *et al.* 1995. Intravenous injection of rabbit

apolipoprotein A-I inhibits the progression of atherosclerosis in cholesterol-fed rabbits. *Arterioscler Thromb Vasc Biol* 15:1882-1888.

10. Duverger,N., Kruth,H., Emmanuel,F., Caillaud,J., Viglietta,C., Castro,G., Tailleux,A., Fievet,C., Fruchart,J., Houdebine,L.M. *et al.* 1996. Inhibition of atherosclerosis development in cholesterol-fed human apolipoprotein A-I-Transgenic rabbits. *Circulation* 94:713-717.
11. Rubin,E., Krauss,R., Spangler,E., Verstuyft,J., and Clift,S. 1991. Inhibition of early atherogenesis in transgenic mice by human apolipoprotein AI. *Nature* 353:265-267.
12. Plump,A., Scott,C., and Breslow,J. 1994. Human apolipoprotein A-I gene expression increases high density lipoprotein and suppresses atherosclerosis in the apolipoprotein E-deficient mouse. *Proc.Natl.Acad.Sci.USA* 91:9607-9611.
13. Paszty,C., Maeda,N., Verstuyft,J., and Rubin,E.M. 1994. Apolipoprotein AI transgene corrects apolipoprotein E deficiency-induced atherosclerosis in mice. *J Clin Invest* 94:899-903.
14. Liu,A.C., Lawn,R.M., Verstuyft,J.G., and Rubin,E.M. 1994. Human apolipoprotein A-I prevents atherosclerosis associated with apolipoprotein[a] in transgenic mice. *Journal of Lipid Research*. 35:2263-2267.
15. De Geest,B., Zhao,Z., Collen,D., and Holvoet,P. 1997. Effects of adenovirus-mediated human apoA-I gene transfer on neointima formation after endothelial denudation in apoE-deficient mice. *Circulation* 96:4349-4356.
16. Benoit,P., Emmanuel,F., Caillaud,J.M., Bassinet,L., Castro,G., Gallix,P., Fruchart,J.C., Branellec,D., Deneffe,P., and Duverger,N. 1999. Somatic gene transfer of human apoA-I inhibits atherosclerosis progression in mouse models. *Circulation* 99:105-110.

17. Tangirala,R.K., Tsukamoto,K., Chun,S.H., Usher,D., Pure',E., and Rader,D.J. 1999. Regression of atherosclerosis induced by liver-directed gene transfer of apolipoprotein A-I in mice. *Circulation* 100:1816-1822.
18. Ishibashi,S., Goldstein,J., Brown,M., Herz,J., and Burns,D. 1994. Massive xanthomatosis and atherosclerosis in cholesterol-fed low density lipoprotein receptor-negative mice. *J Clin Invest* 93:1885-1893.
19. Ishibashi,S., Brown,M., Goldstein,J., Gerard,R., Hammer,R., and Herz,J. 1993. Hypercholesterolemia in low density lipoprotein receptor knockout mice and its reversal by adenovirus-mediated gene delivery. *J Clin Invest* 92:883-893.
20. Kozarsky,K.F., McKinley,D.R., Austin,L.L., Raper,S.E., Stratford-Perricaudet,L.D., and Wilson,J.M. 1994. In vivo correction of low density lipoprotein receptor deficiency in the watanabe heritable hyperlipidemic rabbit with recombinant adenoviruses. *J.Biol.Chem.* 269:13695-13702.
21. Tsukamoto,K., Jiester,K.G., Smith,P., Usher,D.C., Glick,J.M., and Rader,D.J. 1997. Comparison of human apoA-I expression in mouse models of atherosclerosis after gene transfer using a second generation adenovirus. *J Lipid Res* 38:1869-1876.
22. Tsukamoto,K., Tangirala,R., Chun,S.H., Pure',E., and Rader,D.J. 1999. Rapid regression of atherosclerosis induced by liver-directed gene transfer of apolipoprotein E in apoE deficient mice. *Arterioscler Thromb Vasc Biol* 19:2162-2170.
23. Chen,S.J., Rader,D.J., Tazelaar,J., Kawashiri,M., Gao,G., and Wilson,J.M. 2000. Prolonged Correction of Hyperlipidemia in Mice with Familial Hypercholesterolemia Using an Adeno-Associated Viral Vector Expressing Very-Low-Density Lipoprotein Receptor. *Mol.Ther.* 2:256-261.

24. Frenais,R., Ouguerram,K., Maugeais,C., Marchini,J.S., Benlian,P., Bard,J.M., Magot,T., and Krempf,M. 1999. Apolipoprotein A-I kinetics in heterozygous familial hypercholesterolemia: a stable isotope study. *J Lipid Res* 40:1506-1511.