Online Table I. Ratio of LDL/HDL in male mice infused with AngII for 28 days

Mouse Strain	Normal Diet	Western Diet	P Value
C57BL/6	0.15 ± 0.02	0.12 ± 0.02	0.33
LDL Receptor -/-	1.38 ± 0.21	2.98 ± 0.35	0.004

Online Figure I

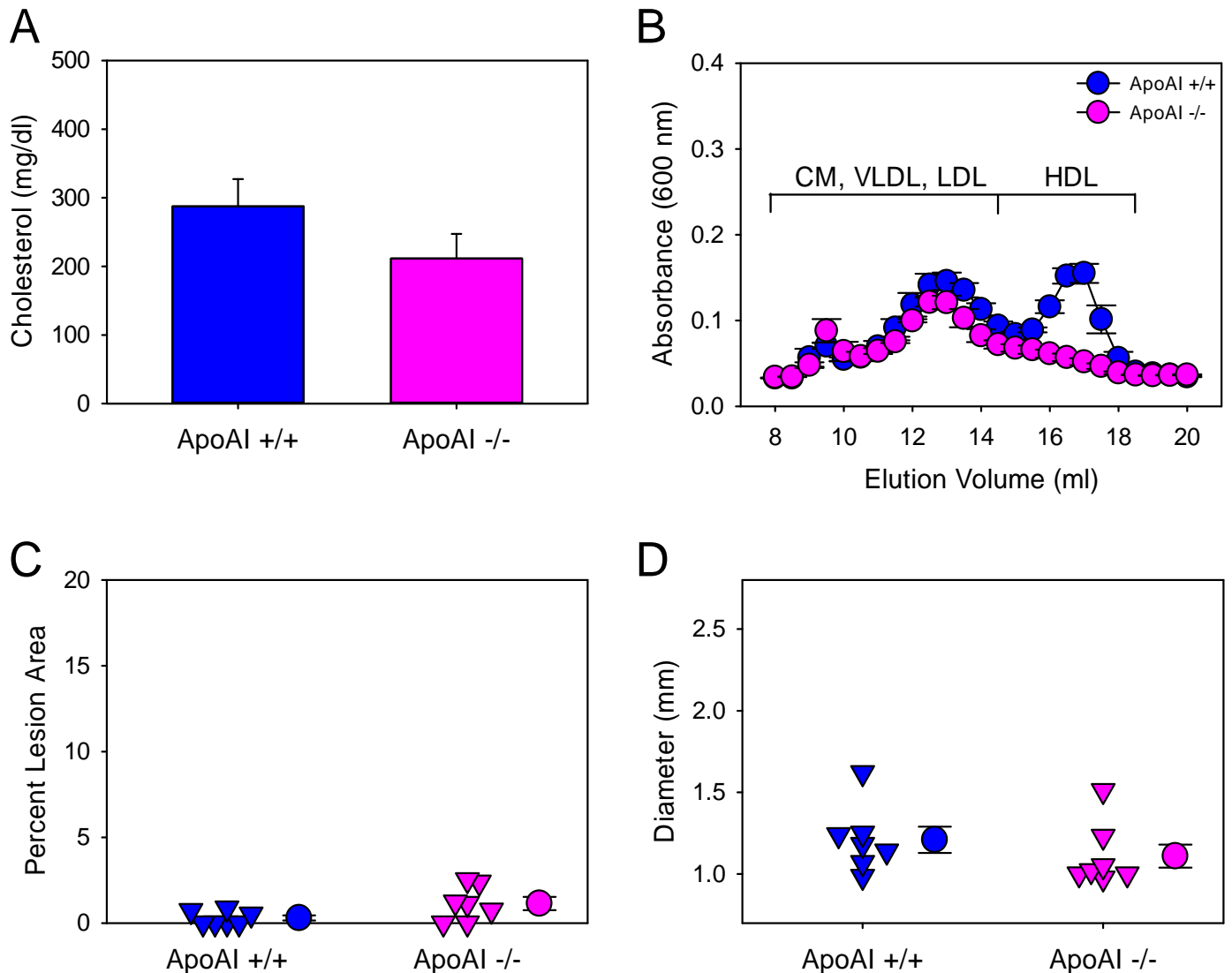## Male LDL receptor -/- Mice Fed Normal Diet

Figure I. **Deficiency of ApoAI had no effect on AngII-induced AAAs in male LDL receptor -/- mice fed normal diet.** (**A**) Plasma cholesterol concentrations. Histobars are means and error bars represent SEM. N=5-6 per group. (**B**) Plasma lipoprotein distributions resolved by size exclusion chromatography. Circles and error bars are means ± SEM. N=3 per group. (**C**) Percent atherosclerotic lesion area in the aortic arch regions. (**D**) Maximal outer diameters of suprarenal aortas. Triangles are values from individual mice, and circles represent means and error bars represent SEM (**C and D**).

Online Figure II

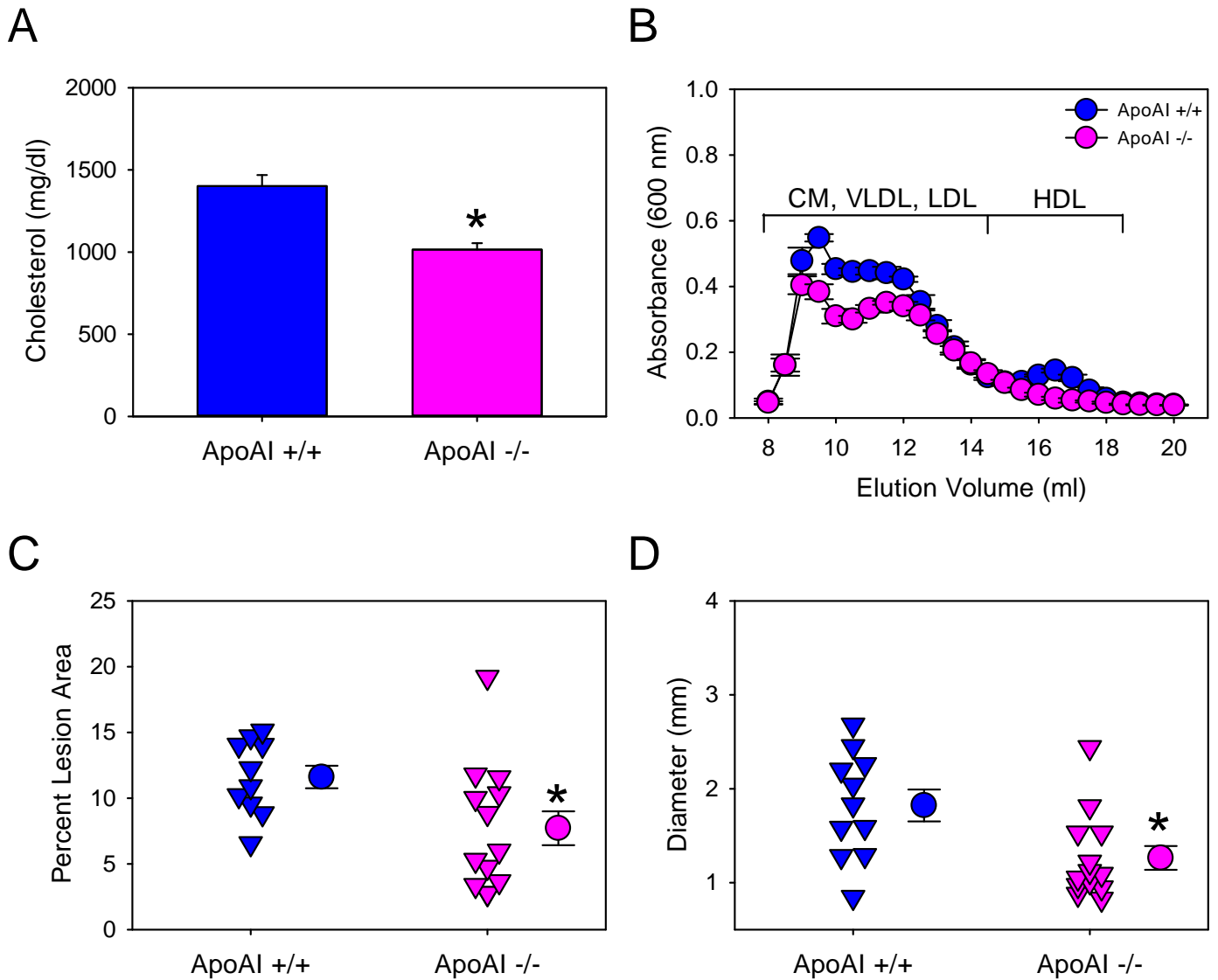## Male LDL receptor -/- Mice Fed Western Diet

A

B

C

D

Figure II. **Deficiency of ApoAI did not exacerbate AngII-induced AAAs in male LDL receptor -/- mice fed Western diet.** (**A**) Plasma cholesterol concentrations. Histobars are means and error bars represent SEM. N=11-13 per group. * denotes P< 0.001 by Mann-Whitney Rank Sum Test. (**B**) Plasma lipoprotein distributions resolved by size exclusion chromatography. Circles and error bars are means ± SEM. N=4-5 per group. (**C**) Percent atherosclerotic lesion area in the aortic arch regions. N=10-13 per group. * denotes P=0.03 by Student's t test. (**D**) Maximal outer widths of suprarenal aortas. N=11-13 per group. * denotes P=0.01 by Mann-Whitney Rank Sum Test. Triangles are values from individual mice, and circles represent means and error bars represent SEM (**C and D**).

Online Figure III

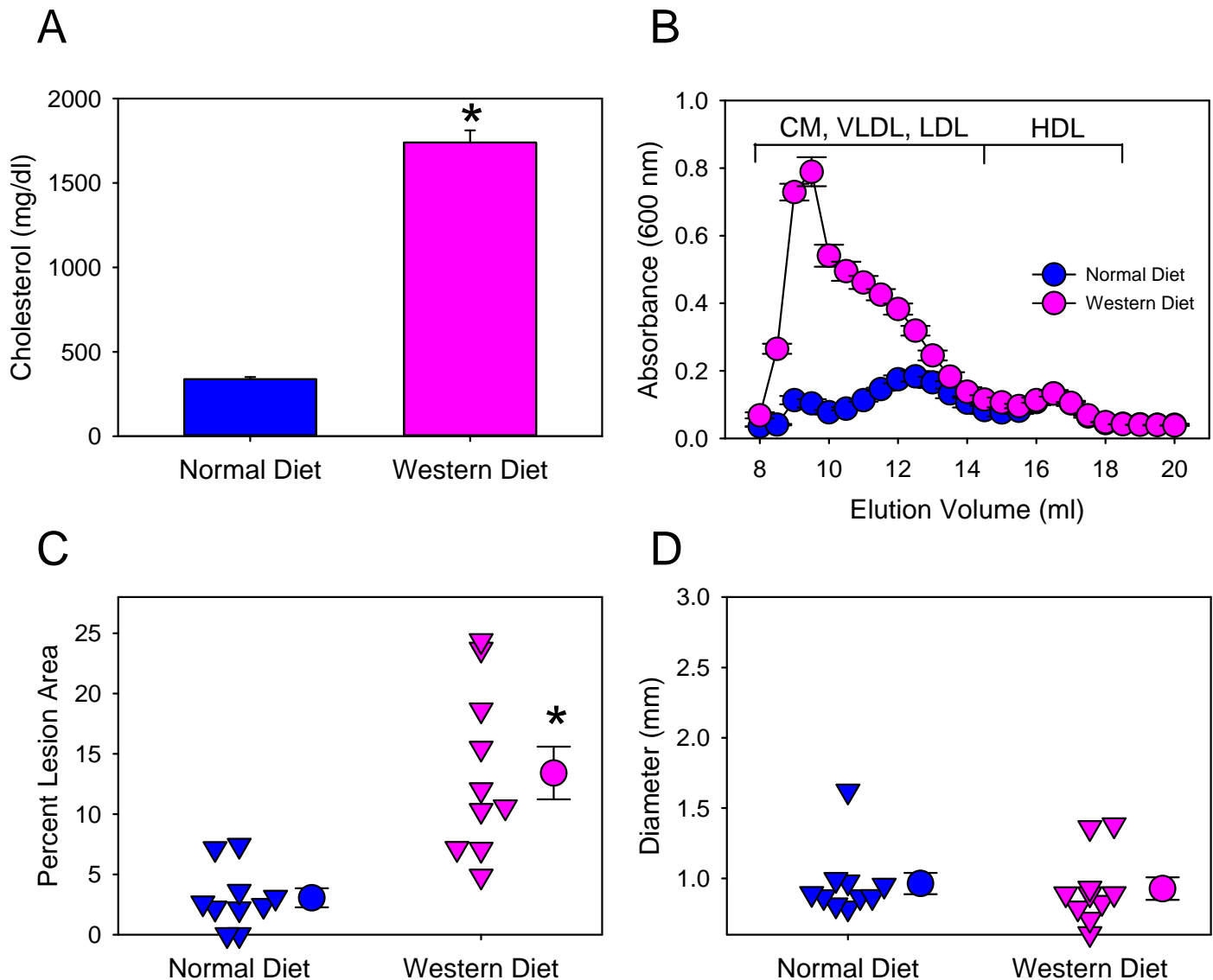## Female LDL Receptor -/- Mice Fed Normal versus Western Diet

Figure III. **Hypercholesterolemia did not increase AngII-induced AAA formation in female LDL receptor -/- mice.** (**A**) Plasma cholesterol concentrations. Histobars are means and error bars represent SEM. N=10 per group. * denotes P<0.001 by Student's t test. (**B**) Plasma lipoprotein distributions resolved by size exclusion chromatography. Circles and error bars are means ± SEM. N=5-7 per group. (**C**) Atherosclerosis in the aortic arch regions. N=10 per group. * denotes P<0.001 by Mann-Whitney Rank Sum Test. (**D**) Maximal outer diameters of suprarenal aortas. N=10 per group. Triangles are values from individual mice. Circles represent means and error bars represent SEM (**C and D**).