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Figure 3. Temporal effects of high fat (HF) diet induced obesity on insulin and IGF-1 stimulated Akt phosphorylation compared to lean low fat (LF) diet fed mice. Reduction in blood glucose is shown in response to insulin (4.5nmol/kg) and IGF-1 at equimolar (4.5nmol/kg) and equipotent (90nmol/kg) doses in lean mice (A). Phosphorylation of Akt in the aorta of lean mice in response to insulin (4.5nmol/kg) and equipotent and equimolar doses of IGF-1 (B). Data shows level of subcutaneously injected human insulin (C) and IGF-1 (D) in plasma of LF and HF diet fed mice. Differences in insulin (4.5nmol/kg) and IGF-1 (90nmol/kg) stimulated phosphorylation of Akt in LF and HF mouse aortae are shown at 2-weeks (E), 5-weeks (F) and 16-weeks (G) of feeding. Representative Western Blots and densitometry are shown. All data are given as mean values ± SEM (n=6-8 for each group). *P<0.05, **P<0.01, ***P<0.001, ****P<0.0001 vs lean vehicle group. Bars represent comparisons made between HF and lean groups.