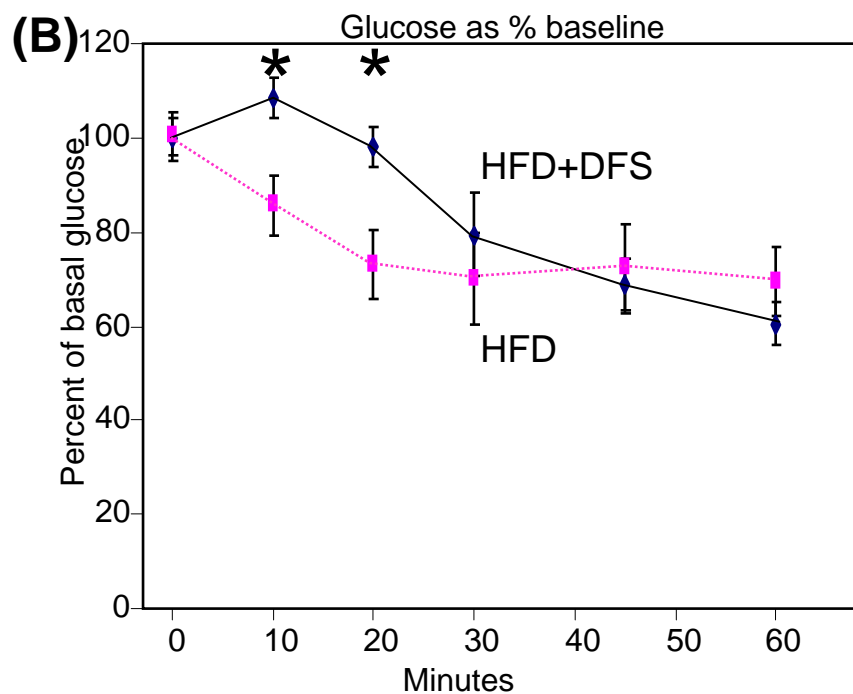
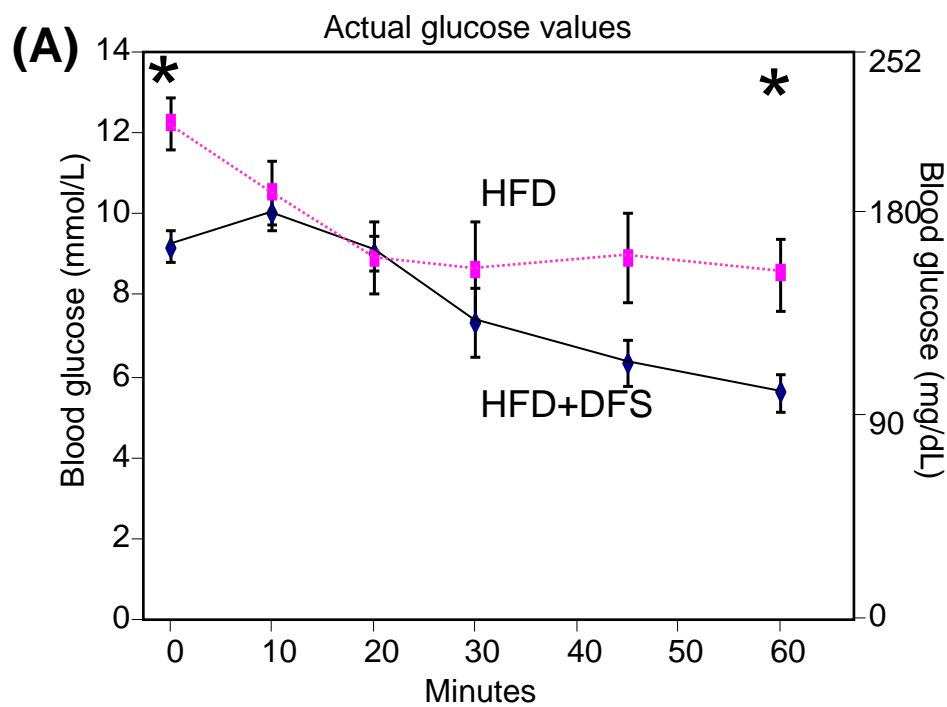


### **Supplementary Table 1**

Real-time PCR primer sequences were as below.

Species	Primers	Gene
Human	gaaagcgcaagtcctcaaag	HIF1a
Human	tggttaggatggagatgc	HIF1a
Human	gttgagttgcagggtgtgg	TBP
Human	ctcaaaccaactgtcaacagc	TBP
Mouse	tgatcctttccacgagacc	AldolaseB
Mouse	tcagcaatcctcaacacagc	AldolaseB
Mouse	tctccctcccagatgatgac	Arnt
Mouse	caatgttgtgcgggagatg	Arnt
Mouse	gtggcagccattggacttt	G6PI
Mouse	ctggaaataggcagcaaagc	G6PI
Mouse	aaagatgtgcccacctacg	GCK
Mouse	tctgggtttctgtcttcacg	GCK
Mouse	aggtcaccatcttgagactg	Glut1
Mouse	acagcgacaccacagtgaag	Glut1
Mouse	catgctgagctctgctgaag	Glut2
Mouse	acagtccaacggatccactc	Glut2
Mouse	tcaagtcagcaacgtggaag	Hif1a
Mouse	tatcgaggctgtgtcgactg	Hif1a
Mouse	actgcagcagcacaacatc	HNF1a / TCF1
Mouse	gaattgctgagccacctctc	HNF1a / TCF1
Mouse	gcacctcagataagccgctc	HNF1b / TCF2
Mouse	tttctcccttctcgttgac	HNF1b / TCF2
Mouse	ggcgaagctacgaggacagc	HNF4alpha
Mouse	atgtactggcccactcgac	HNF4alpha
Mouse	tcccaaacagaaggaggatg	Irs1
Mouse	cattccgaggagagctttg	Irs1
Mouse	gtagttcaggtcgcctctgc	Irs2
Mouse	ttgggaccaccactcctaag	Irs2
Mouse	agagggggaacgactctagg	PDX-1
Mouse	acttgagcgttccaatacgg	PDX-1
Mouse	atggcaaagctatcgggtgc	Pfk
Mouse	acacagtcccattggcttc	Pfk
Mouse	tcaggccattgaggaaaatc	Pgm1
Mouse	cgaactcaccttgctctcc	Pgm1
Mouse	tatcactctgccacaccag	TBP
Mouse	atgatgactgcagcaaatcg	TBP



**Supplementary Figure 1.** Mice receiving high fat diet (HFD) with or without deferiasirox (DFS) had insulin tolerance testing after 8 weeks on the diet. Insulin (0.33 IU/kg) was given intraperitoneally and glucose was measured from a tail-nick at the times shown. **(A)** HFD+DFS mice had significantly lower fasting and 60 minute glucoses. **(B)** Expressed as a percentage of baseline, HFD+DFS mice had significantly higher percentages early, but achieved a similar decreases. Average weight was  $26.7 \pm 1.0$ g in HFD+DFS and  $26.5 \pm 0.8$ g in HFD alone mice. Error bars indicate  $\pm 1$ SEM. \*= $p < 0.05$ .