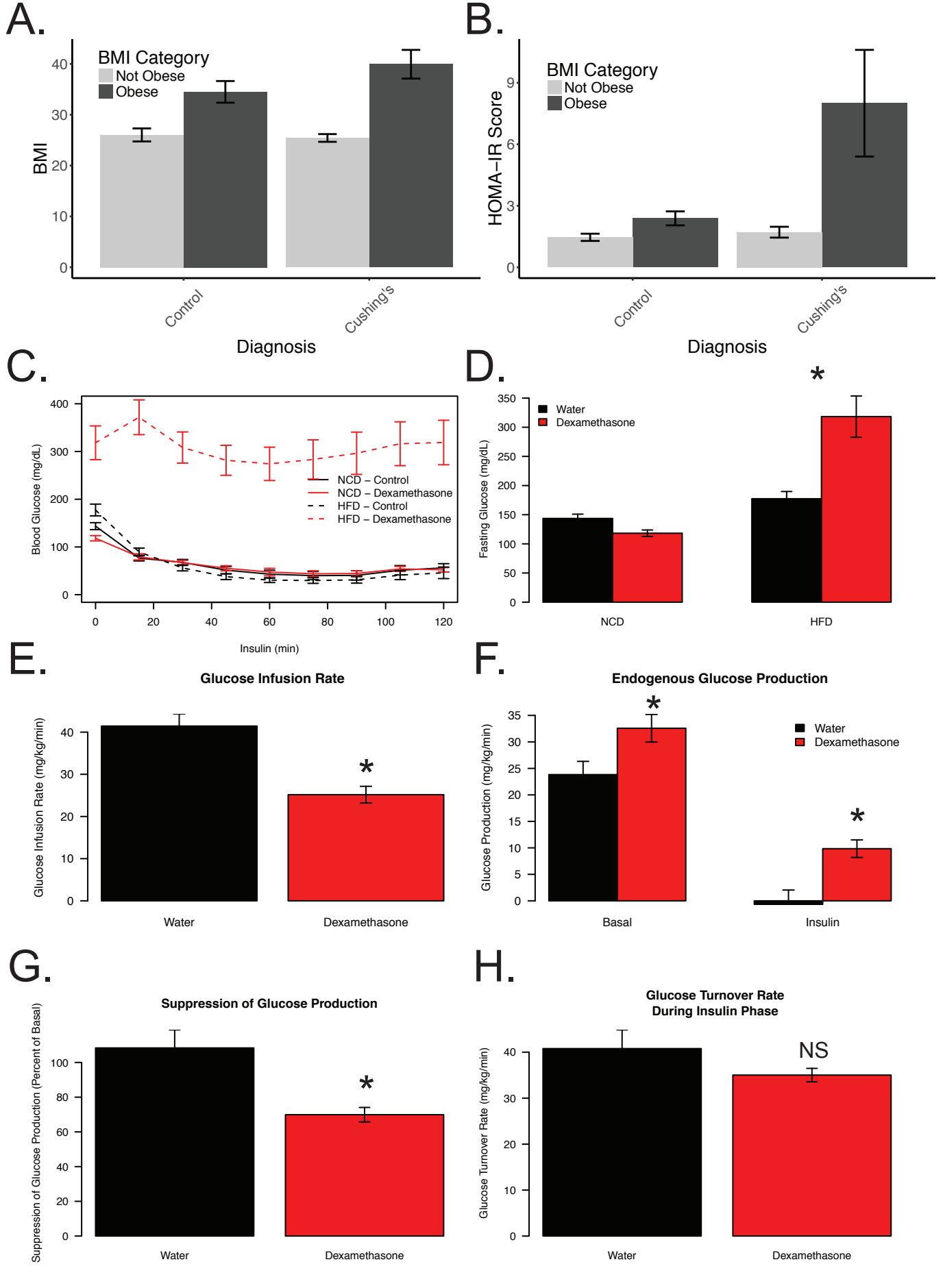
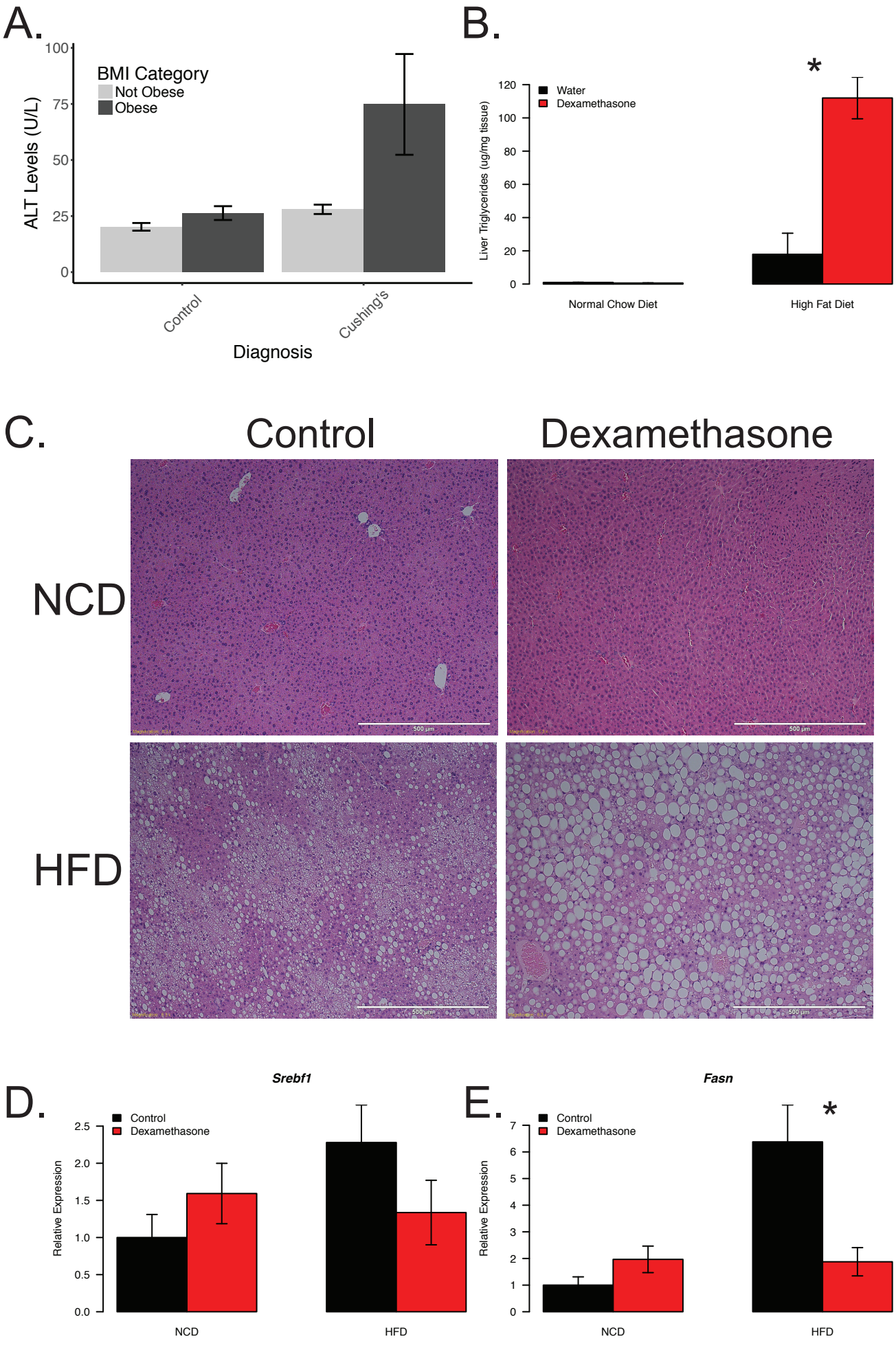
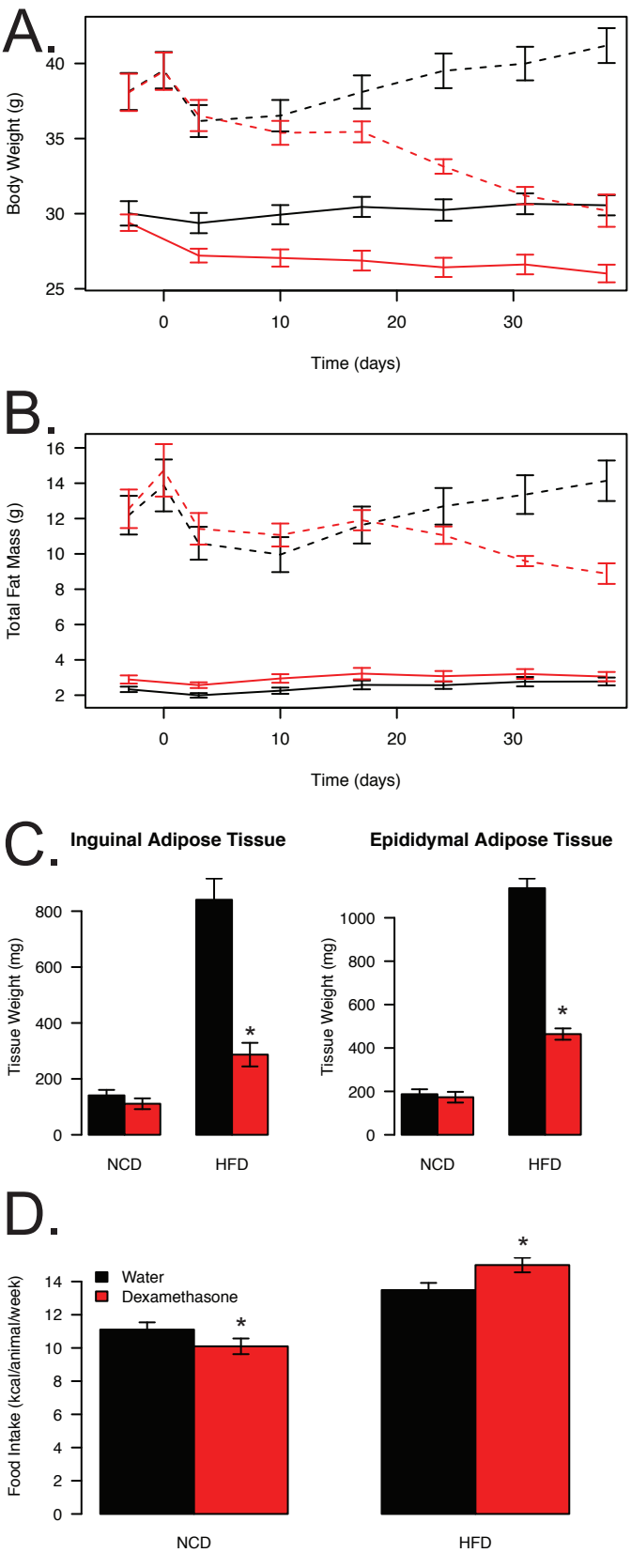
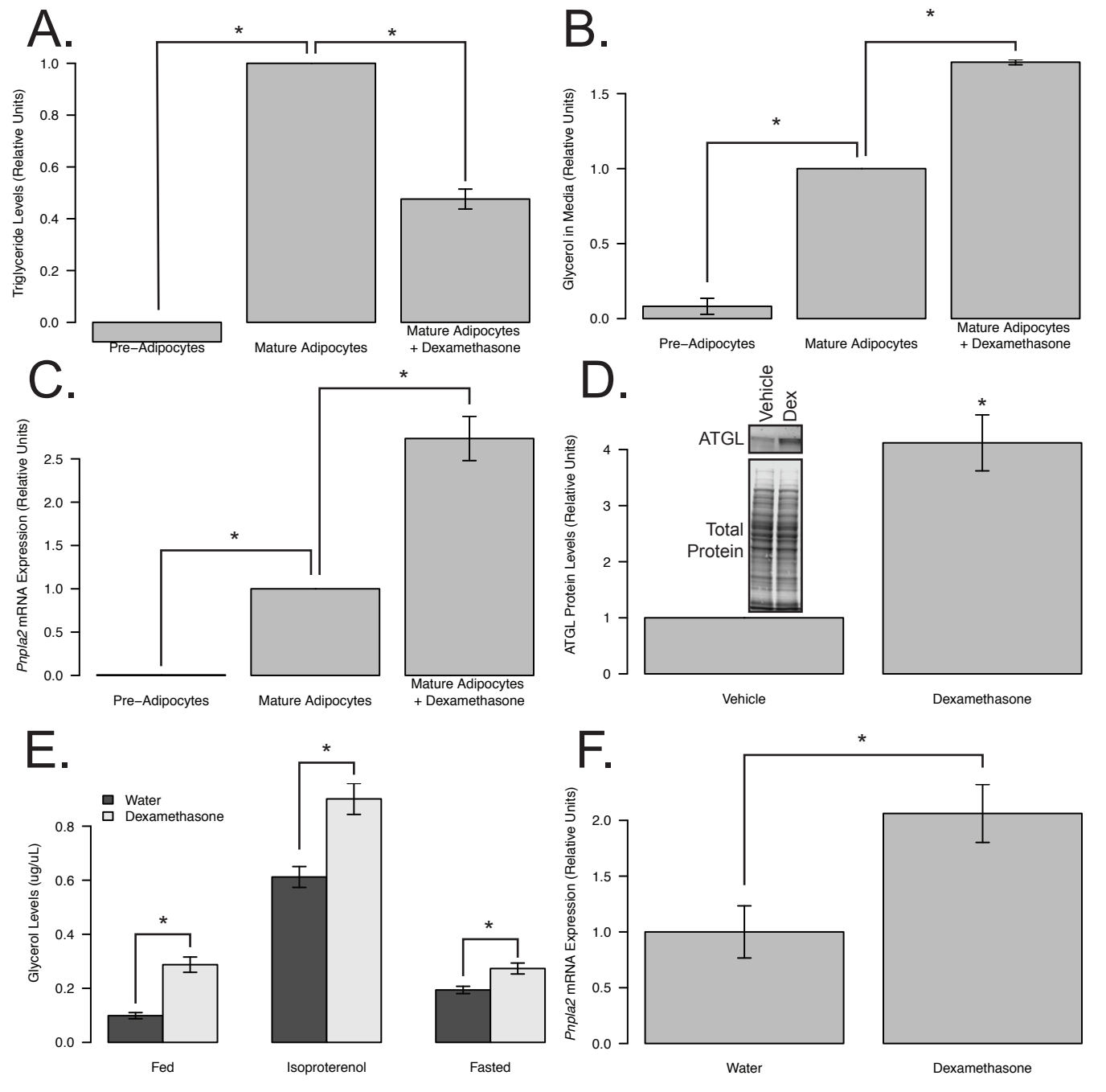
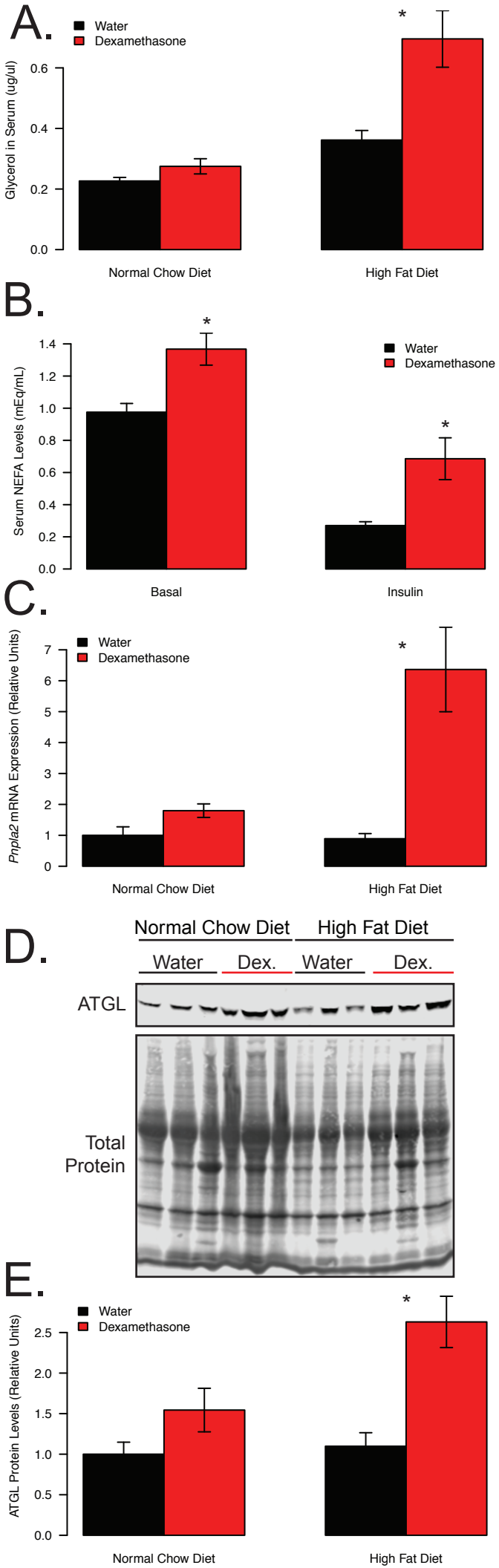

A.
BMI Category
Not Obese
Obese
BMI
0
10
20
30
40
Control
Cushing's
Diagnosis
B.
BMI Category
Not Obese
Obese
HOMA–IR Score
0
3
6
9
Control
Cushing's
Diagnosis
C.
Blood Glucose (mg/dL)
0
100
200
300
400
NCD – Control
NCD – Dexamethasone
HFD – Control
HFD – Dexamethasone
0
20
40
60
80
100
120
Insulin (min)
D.
*
Water
Dexamethasone
Fasting Glucose (mg/dL)
0
50
100
150
200
250
300
350
NCD
HFD
E.
Glucose Infusion Rate
Glucose Infusion Rate (mg/kg/min)
0
10
20
30
40
*
Water
Dexamethasone
F.
Endogenous Glucose Production
Glucose Production (mg/kg/min)
0
5
10
15
20
25
30
35
*
*
Water
Dexamethasone
Basal
Insulin
G.
Suppression of Glucose Production
Suppression of Glucose Production (Percent of Basal)
0
20
40
60
80
100
*
Water
Dexamethasone
H.
Glucose Turnover Rate
During Insulin Phase
Glucose Turnover Rate (mg/kg/min)
0
10
20
30
40
NS
Water
Dexamethasone


A.
BMI Category
Not Obese
Obese
ALT Levels (U/L)
100
75
50
25
0
Control
Cushing's
Diagnosis
B.
Water
Dexamethasone
Liver Triglycerides (ug/mg tissue)
120
100
80
60
40
20
0
*
Normal Chow Diet
High Fat Diet
C.
Control
Dexamethasone
NCD
HFD
500 µm
D.
Srebf1
Control
Dexamethasone
Relative Expression
2.5
2.0
1.5
1.0
0.5
0.0
NCD
HFD
E.
Fasn
Control
Dexamethasone
Relative Expression
7
6
5
4
3
2
1
0
*
NCD
HFD


A.
Body Weight (g)
40
35
30
25
0
10
20
30
Time (days)
B.
Total Fat Mass (g)
16
14
12
10
8
6
4
2
0
10
20
30
Time (days)
C.
Inguinal Adipose Tissue
Epididymal Adipose Tissue
Tissue Weight (mg)
800
600
400
200
0
1000
*
NCD
HFD
D.
Food Intake (kcal/animal/week)
Water
Dexamethasone
14
12
10
8
6
4
2
0
*
NCD
HFD


A.
Triglyceride Levels (Relative Units)
1.0
0.8
0.6
0.4
0.2
0.0
*
*
Pre−Adipocytes
Mature Adipocytes
Mature Adipocytes
+ Dexamethasone
B.
Glycerol in Media (Relative Units)
1.5
1.0
0.5
0.0
*
*
Pre−Adipocytes
Mature Adipocytes
Mature Adipocytes
+ Dexamethasone
C.
Pnpla2 mRNA Expression (Relative Units)
2.5
2.0
1.5
1.0
0.5
0.0
*
*
Pre−Adipocytes
Mature Adipocytes
Mature Adipocytes
+ Dexamethasone
D.
Vehicle
Dex
ATGL
Total
Protein
ATGL Protein Levels (Relative Units)
4
3
2
1
0
*
Vehicle
Dexamethasone
E.
Water
Dexamethasone
Glycerol Levels (ug/uL)
0.8
0.6
0.4
0.2
0.0
*
*
*
Fed
Isoproterenol
Fasted
F.
Pnpla2 mRNA Expression (Relative Units)
2.0
1.5
1.0
0.5
0.0
*
Water
Dexamethasone


A.
Water
Dexamethasone
Glycerol in Serum (ug/ul)
0.6
0.4
0.2
0.0
*
Normal Chow Diet
High Fat Diet
B.
Serum NEFA Levels (mEq/mL)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
*
Water
Dexamethasone
*
Basal
Insulin
C.
Pnpla2 mRNA Expression (Relative Units)
7
6
5
4
3
2
1
0
Water
Dexamethasone
*
Normal Chow Diet
High Fat Diet
D.
Normal Chow Diet
High Fat Diet
Water
Dex.
Water
Dex.
ATGL
Total
Protein
E.
ATGL Protein Levels (Relative Units)
2.5
2.0
1.5
1.0
0.5
0.0
Water
Dexamethasone
*
Normal Chow Diet
High Fat Diet