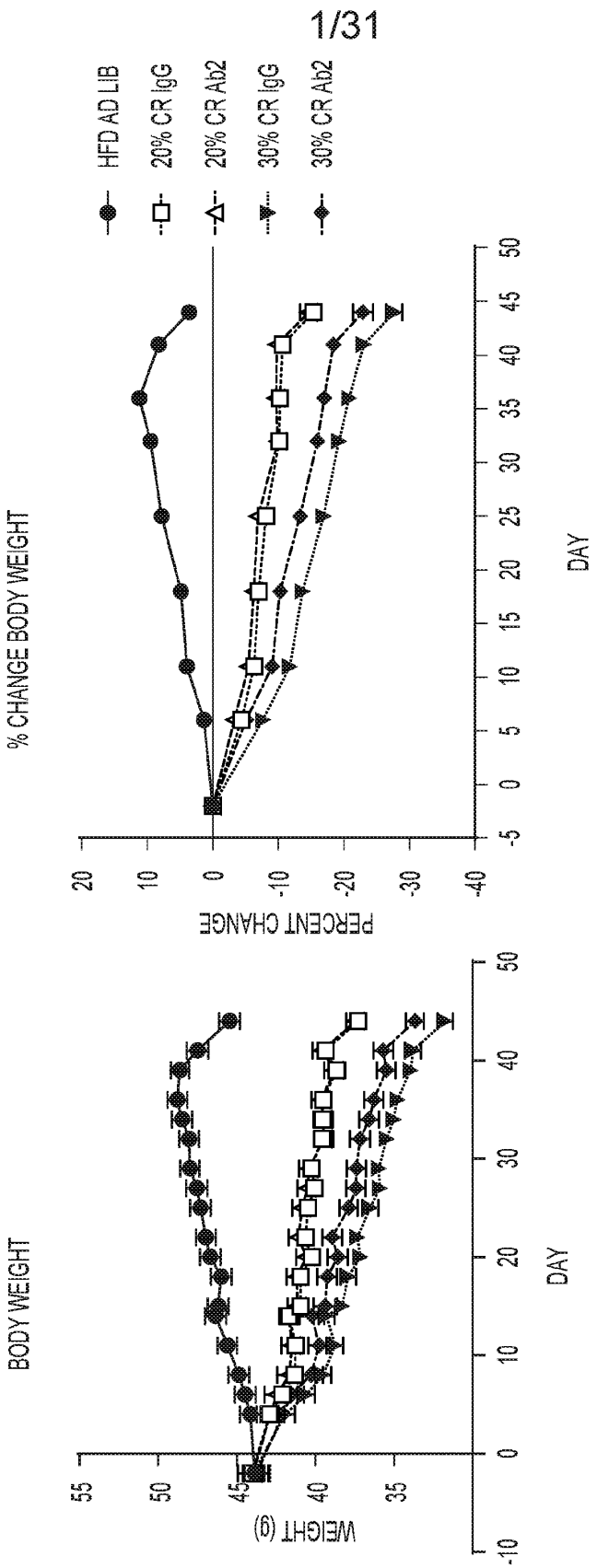

HFD AD LIB
20% CR IgG
20% CR Ab2
30% CR IgG
30% CR Ab2
% CHANGE BODY WEIGHT
PERCENT CHANGE
DAY
BODY WEIGHT
WEIGHT (g)
DAY

FIG. 1A

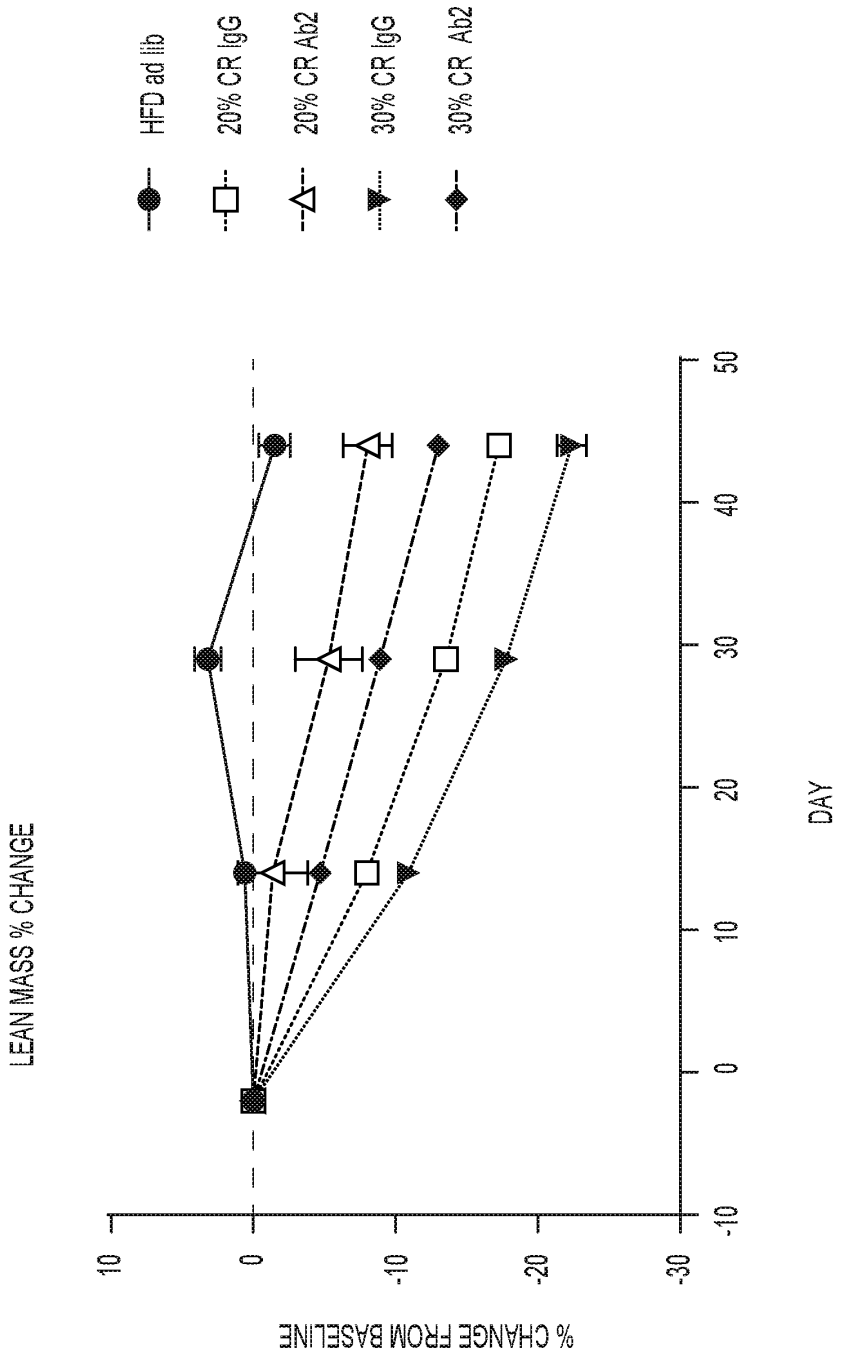

HFD ad lib
20% CR IgG
20% CR Ab2
30% CR IgG
30% CR Ab2
LEAN MASS % CHANGE
% CHANGE FROM BASELINE
10
0
-10
-20
-30
-10
0
10
20
30
40
50
DAY

FIG. 1B

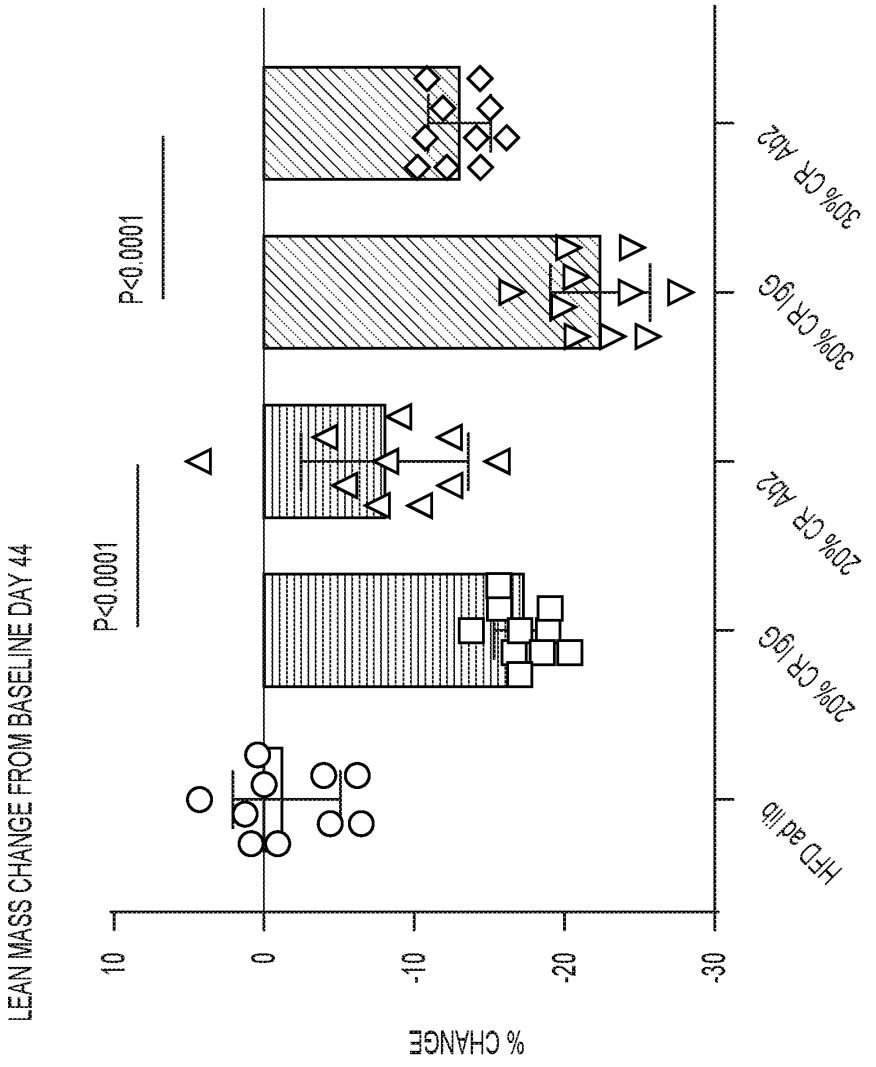

LEAN MASS CHANGE FROM BASELINE DAY 44
% CHANGE
10
0
-10
-20
-30
P<0.0001
P<0.0001
HFD ad lib
20% CR IgG
20% CR Ab2
30% CR IgG
30% CR Ab2

FIG. 1C

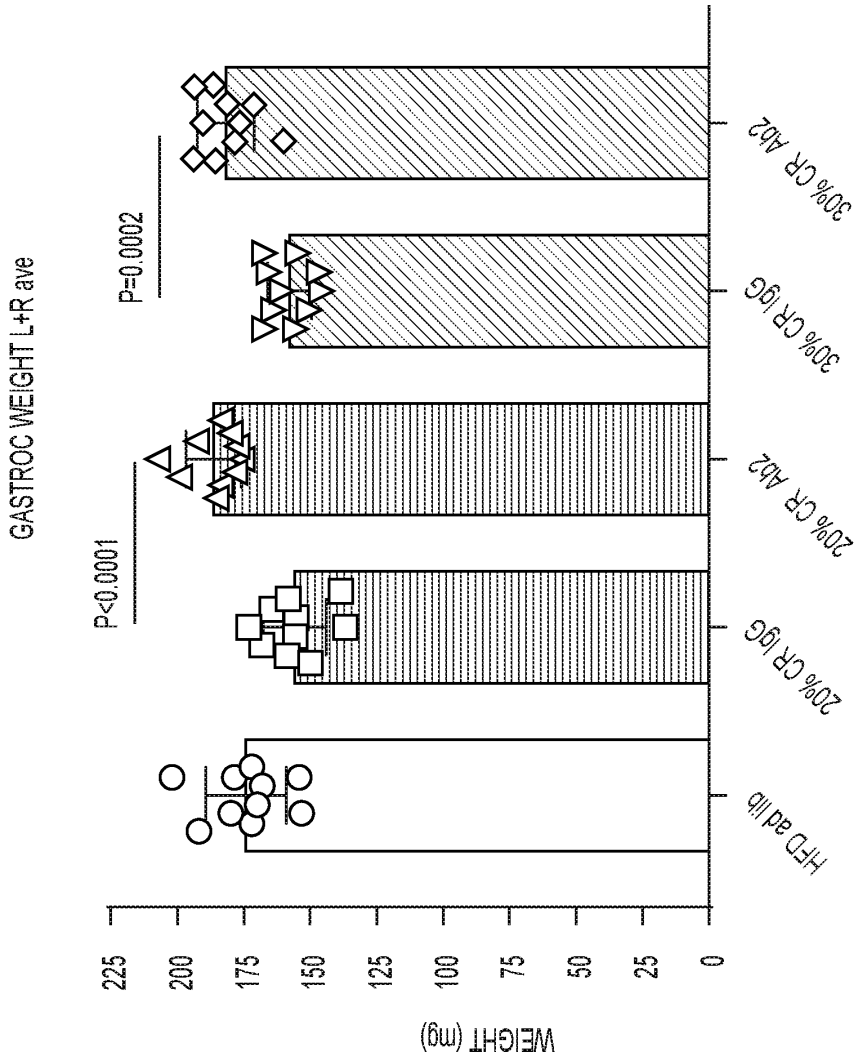

GASTROC WEIGHT L+R ave
P<0.0001
P=0.0002
WEIGHT (mg)
225
200
175
150
125
100
75
50
25
0
HFD ad lib
20% CR IgG
20% CR Ab2
30% CR IgG
30% CR Ab2

FIG. 1D

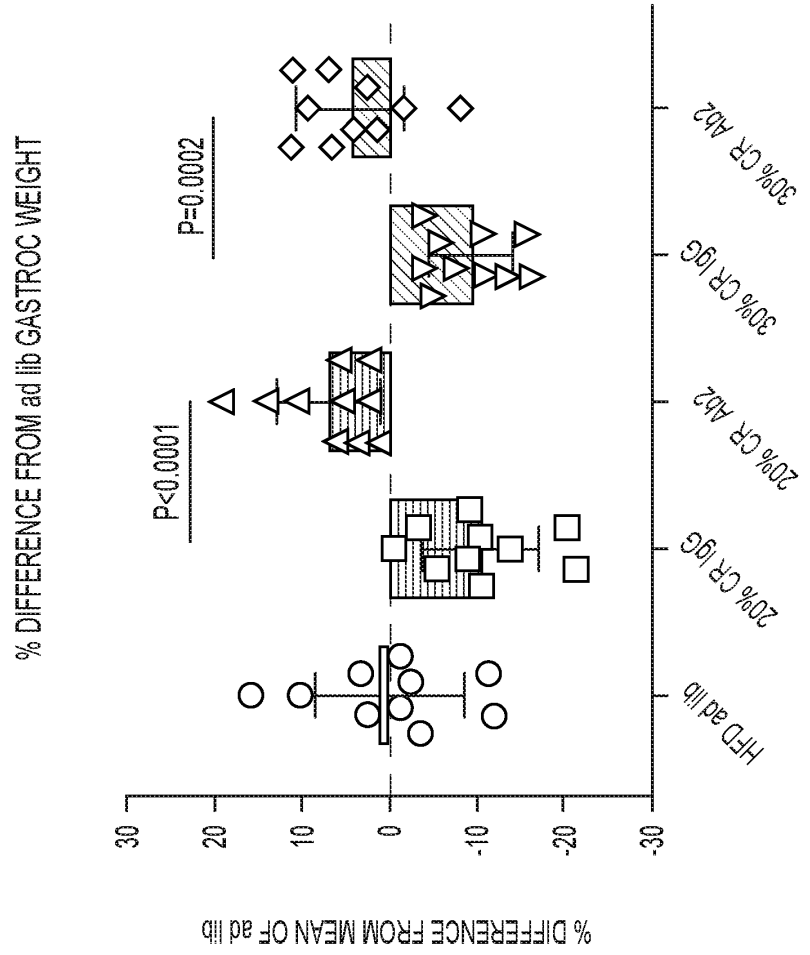

% DIFFERENCE FROM ad lib GASTROC WEIGHT
P=0.0002
P<0.0001
30
20
10
0
-10
-20
-30
% DIFFERENCE FROM MEAN OF ad lib
HFD ad lib
20% CR IgG
20% CR Ab2
30% CR IgG
30% CR Ab2

FIG. 1E

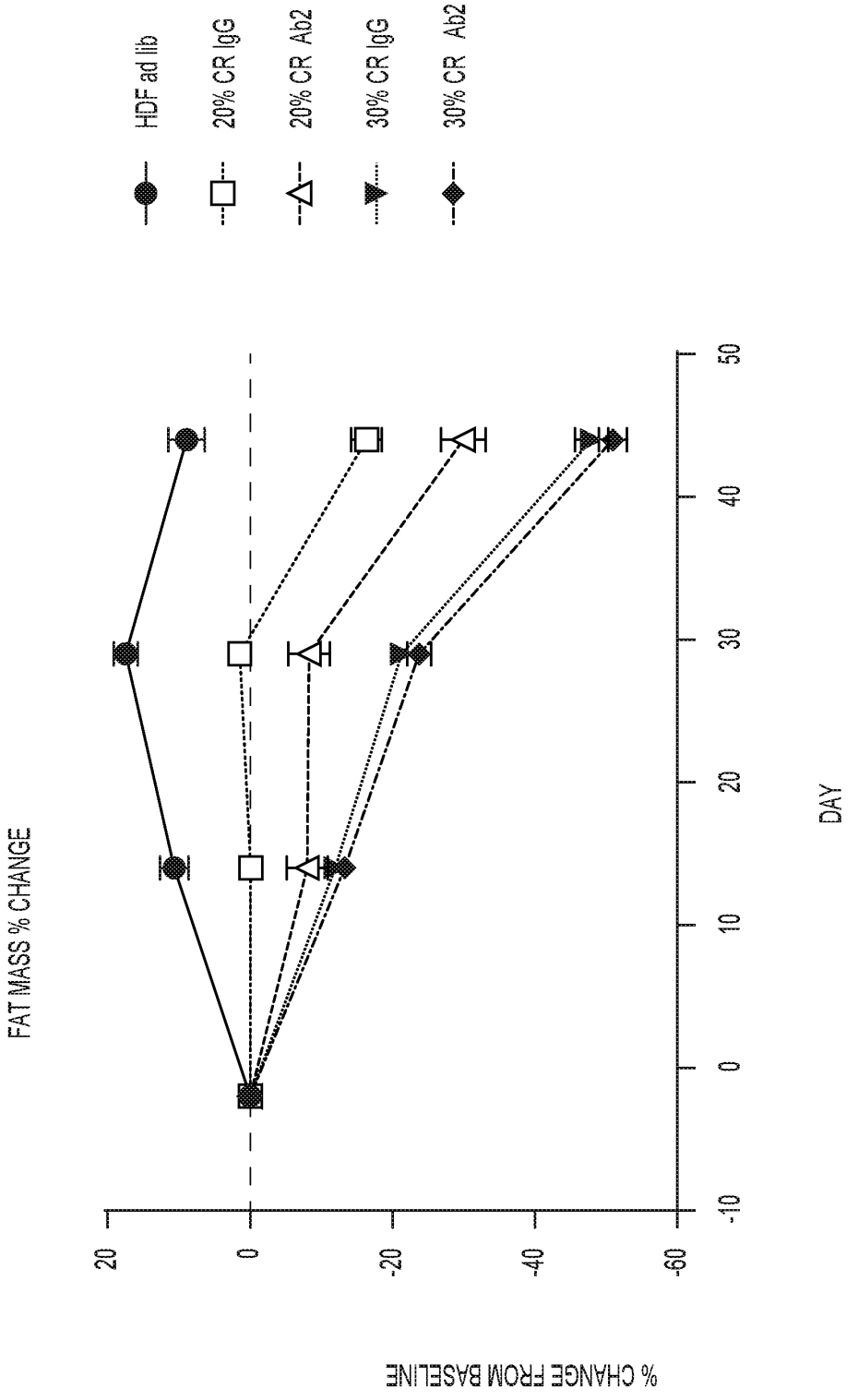

HDF ad lib
20% CR IgG
20% CR Ab2
30% CR IgG
30% CR Ab2
FAT MASS % CHANGE
% CHANGE FROM BASELINE
DAY
20
0
-20
-40
-60
-10
0
10
20
30
40
50

FIG. 1F

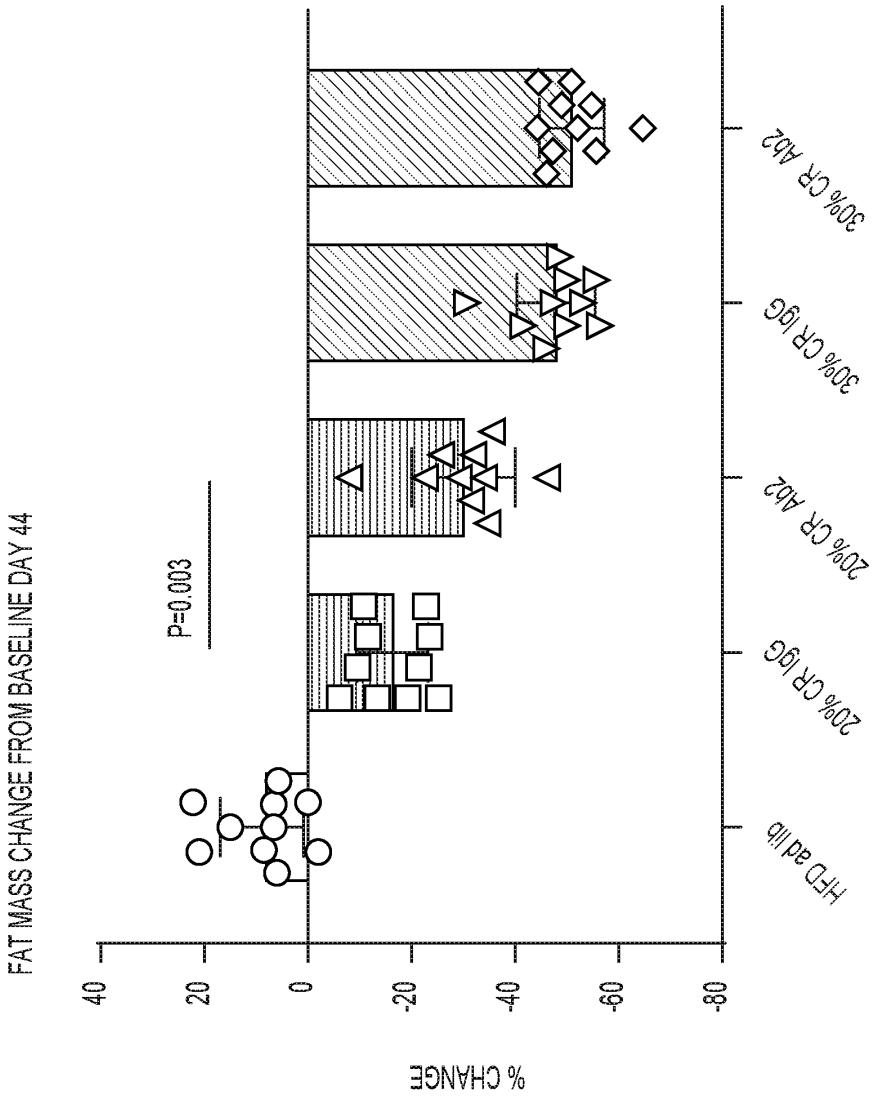

FAT MASS CHANGE FROM BASELINE DAY 44
% CHANGE
40
20
0
-20
-40
-60
-80
P=0.003
HFD ad lib
20% CR IgG
20% CR Ab2
30% CR IgG
30% CR Ab2

FIG. 1G

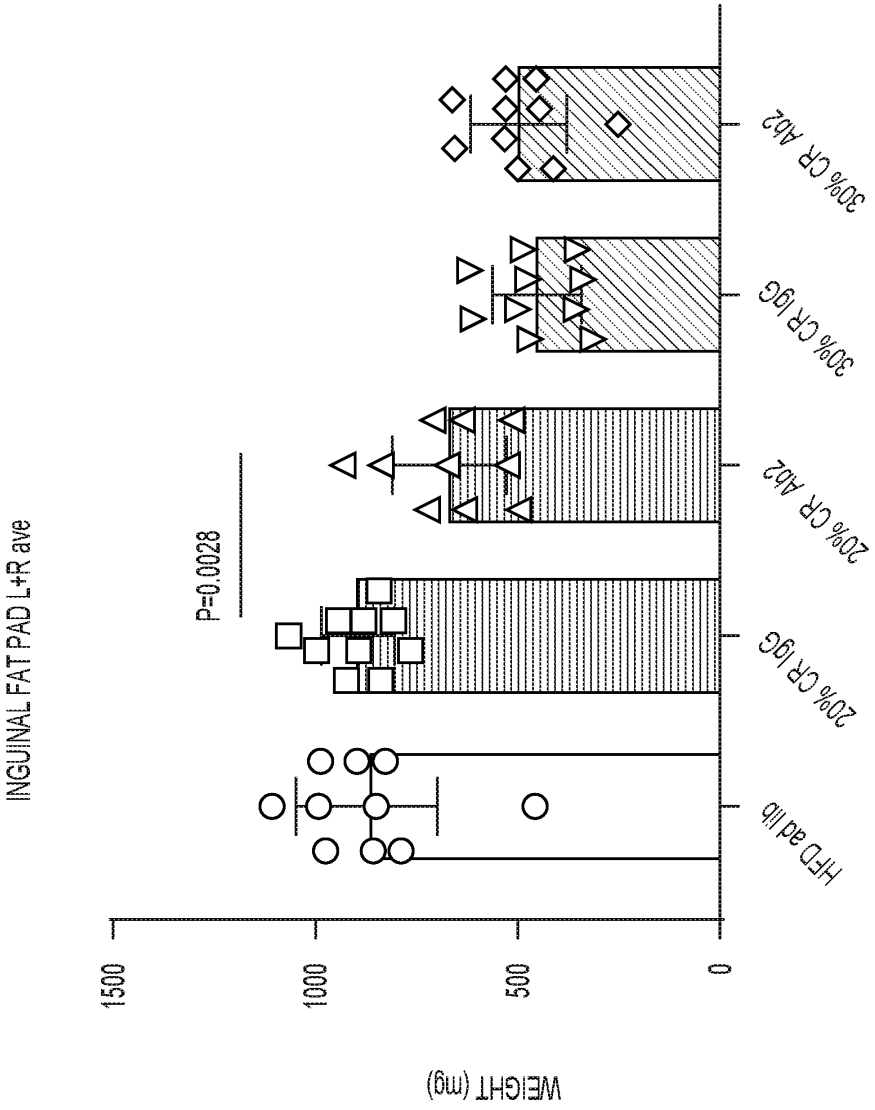

INGUINAL FAT PAD L+R ave
P=0.0028
WEIGHT (mg)
1500
1000
500
0
HFD ad lib
20% CR IgG
20% CR Ab2
30% CR IgG
30% CR Ab2

FIG. 1H

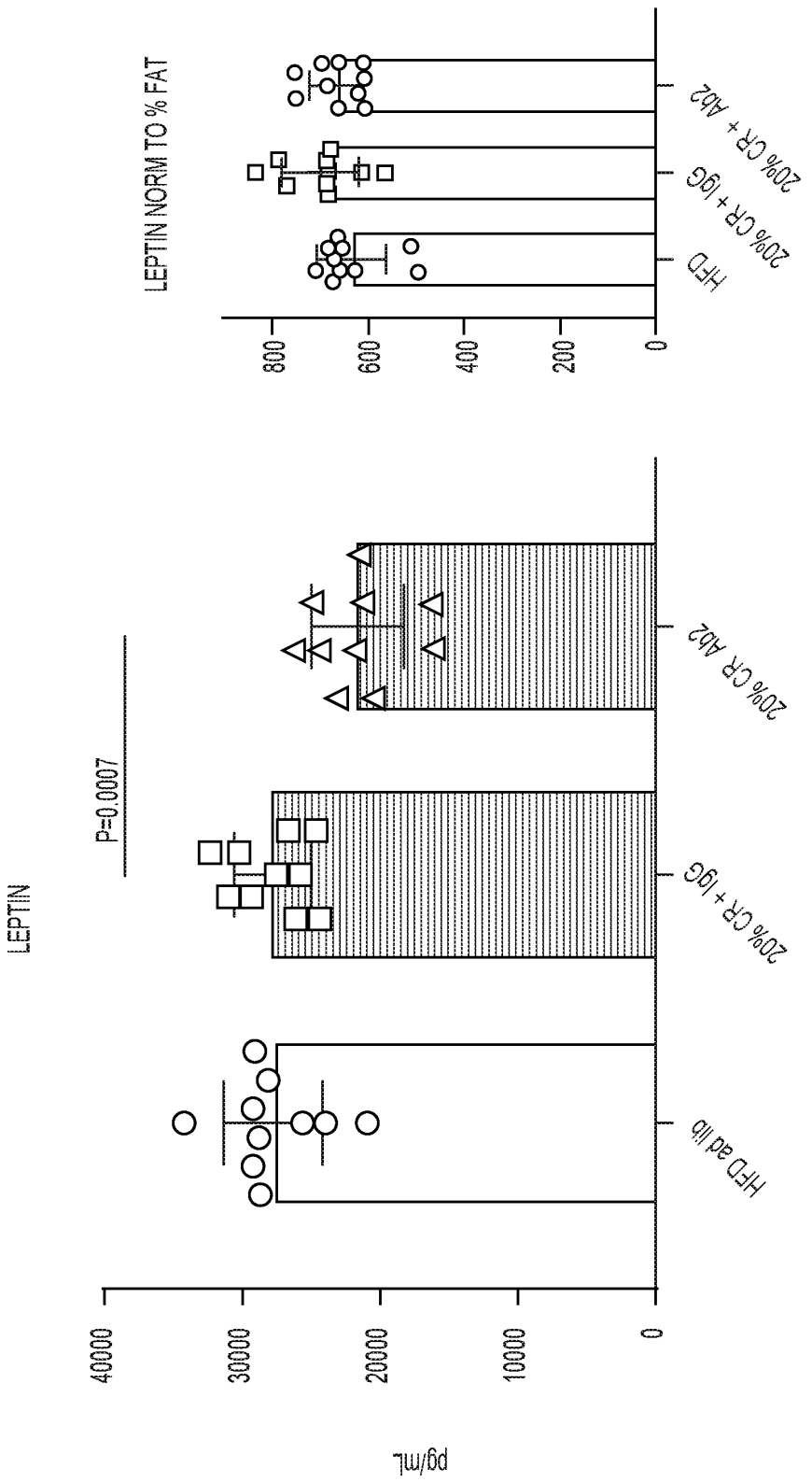

LEPTIN NORM TO % FAT
800
600
400
200
0
HFD
20% CR + IgG
20% CR + Ab2
LEPTIN
P=0.0007
40000
30000
20000
10000
0
pg/mL
HFD ad lib
20% CR + IgG
20% CR Ab2

FIG. 1I

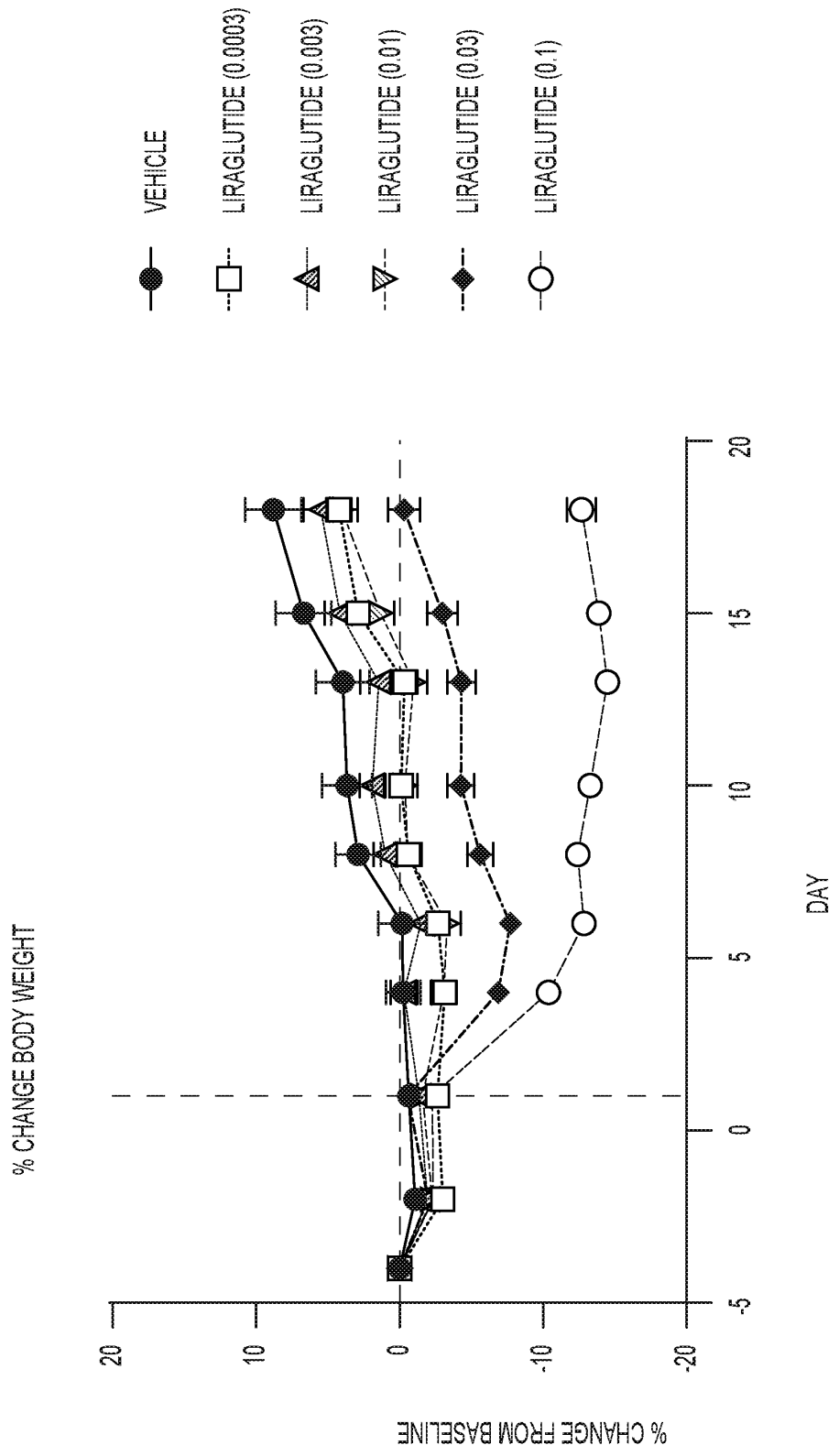

VEHICLE
LIRAGLUTIDE (0.0003)
LIRAGLUTIDE (0.003)
LIRAGLUTIDE (0.01)
LIRAGLUTIDE (0.03)
LIRAGLUTIDE (0.1)
% CHANGE BODY WEIGHT
% CHANGE FROM BASELINE
DAY
20
10
0
-10
-20
-5
0
5
10
15
20

FIG. 2A

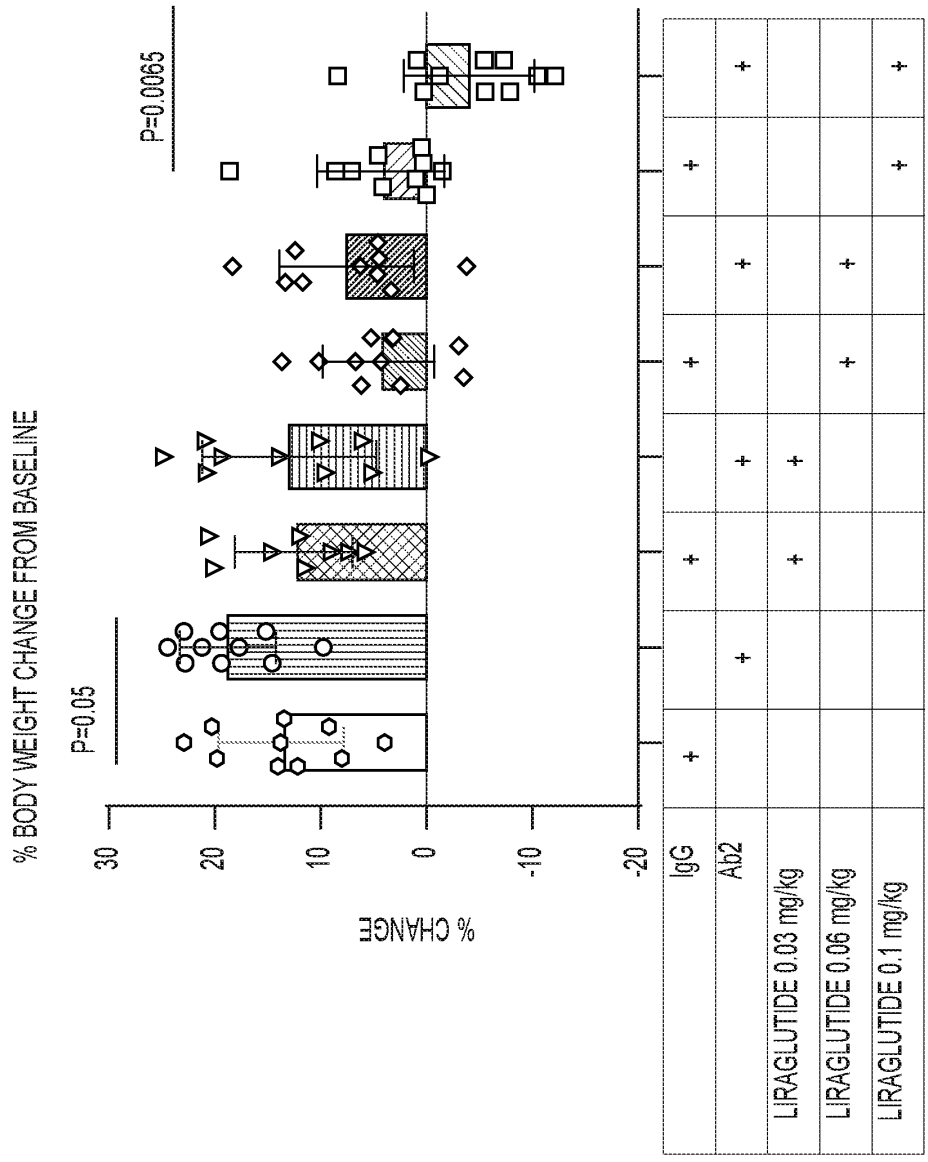

% BODY WEIGHT CHANGE FROM BASELINE
P=0.05
P=0.0065
% CHANGE
30
20
10
0
-10
-20
IgG
Ab2
LIRAGLUTIDE 0.03 mg/kg
LIRAGLUTIDE 0.06 mg/kg
LIRAGLUTIDE 0.1 mg/kg

FIG. 2B

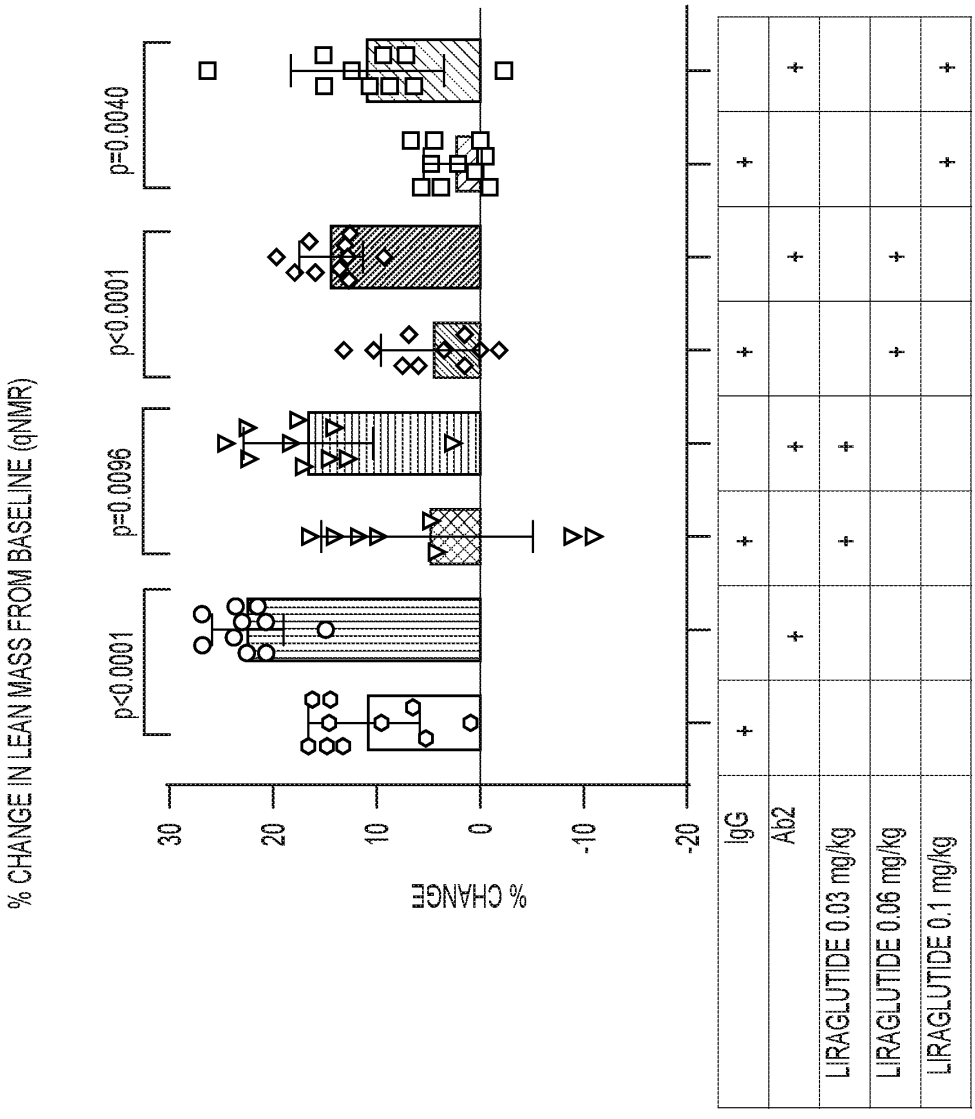

% CHANGE IN LEAN MASS FROM BASELINE (qNMR)
% CHANGE
30
20
10
0
-10
-20
p<0.0001
p=0.0096
p<0.0001
p=0.0040
IgG
Ab2
LIRAGLUTIDE 0.03 mg/kg
LIRAGLUTIDE 0.06 mg/kg
LIRAGLUTIDE 0.1 mg/kg

FIG. 2C

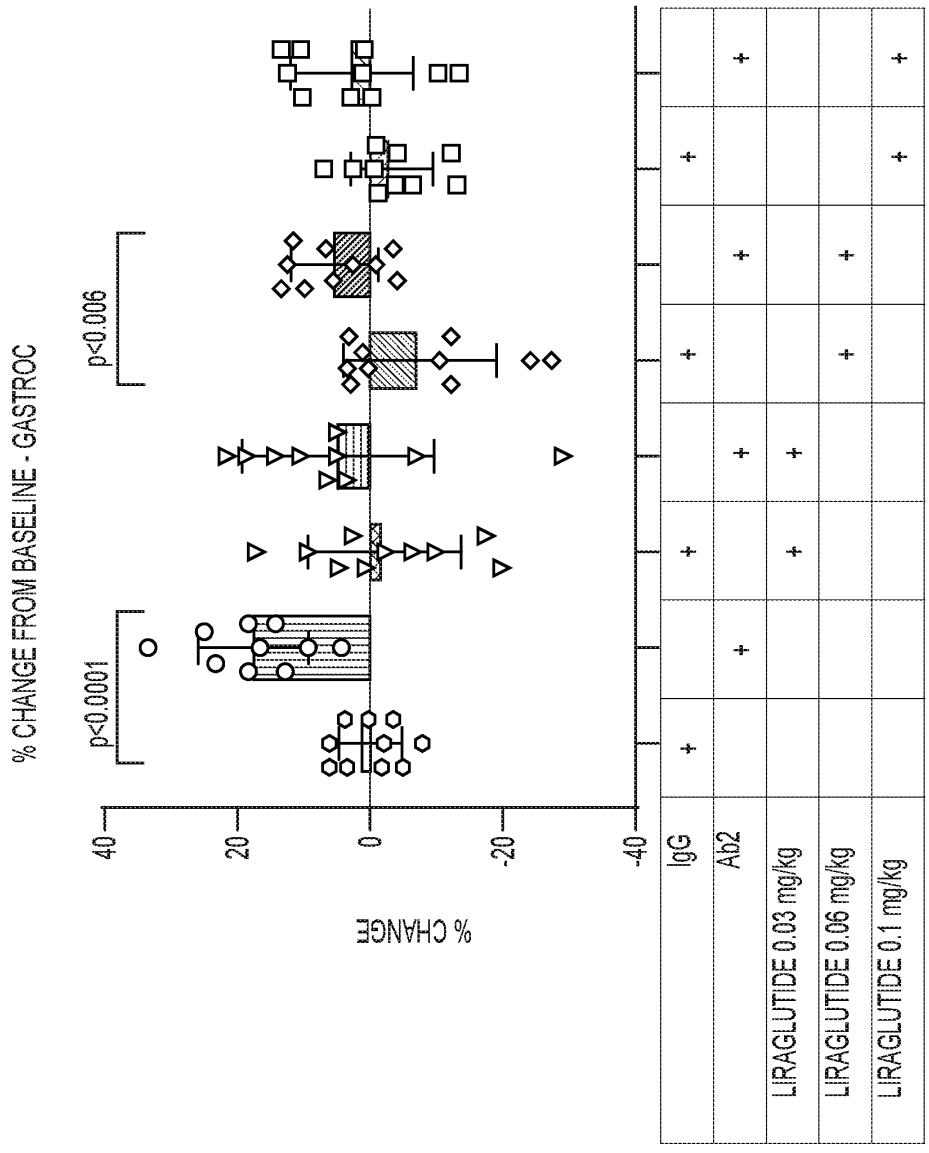

% CHANGE FROM BASELINE - GASTROC
p<0.0001
p<0.006
40
20
0
-20
-40
% CHANGE
IgG
Ab2
LIRAGLUTIDE 0.03 mg/kg
LIRAGLUTIDE 0.06 mg/kg
LIRAGLUTIDE 0.1 mg/kg

FIG. 2D

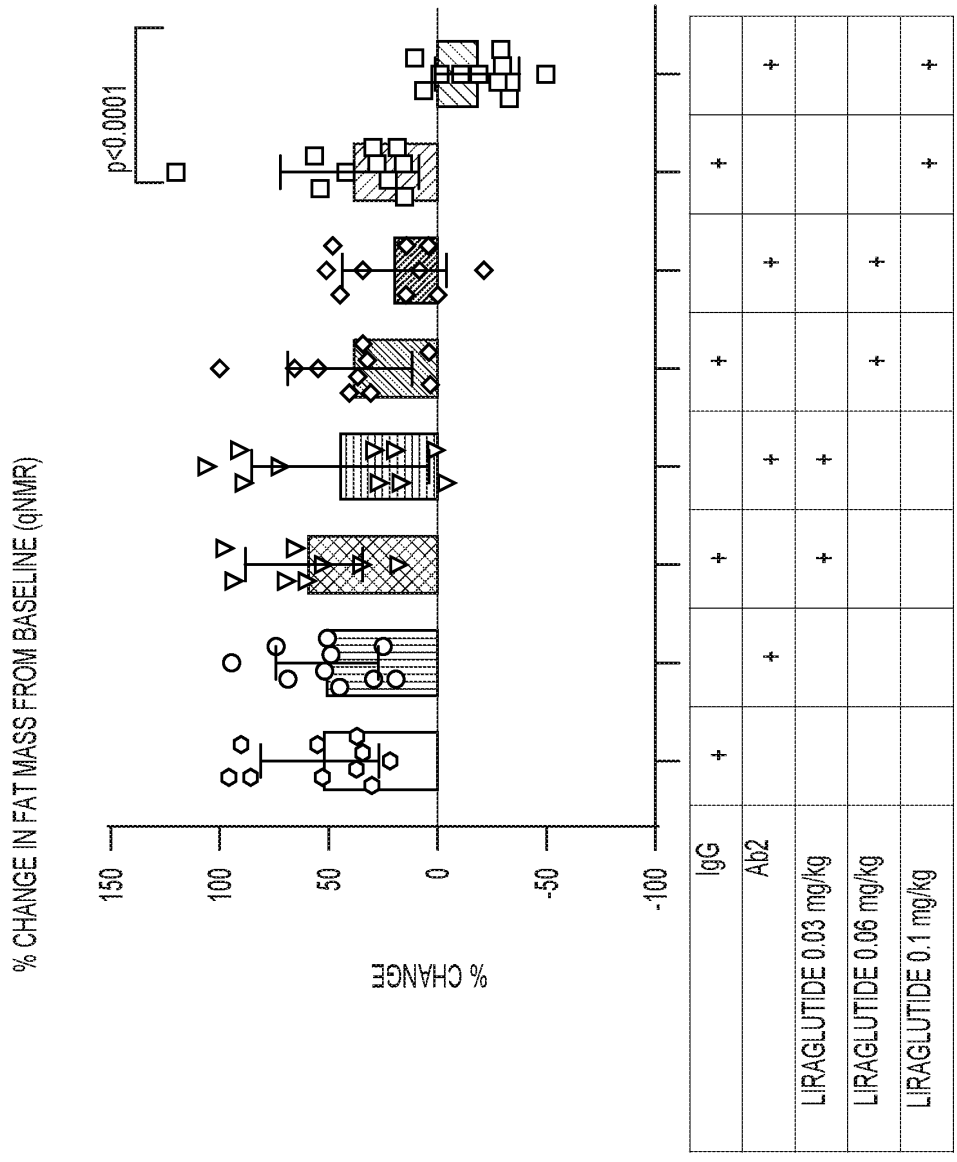

% CHANGE IN FAT MASS FROM BASELINE (qNMR)
p<0.0001
% CHANGE
150
100
50
0
-50
-100
IgG
Ab2
LIRAGLUTIDE 0.03 mg/kg
LIRAGLUTIDE 0.06 mg/kg
LIRAGLUTIDE 0.1 mg/kg

FIG. 2E

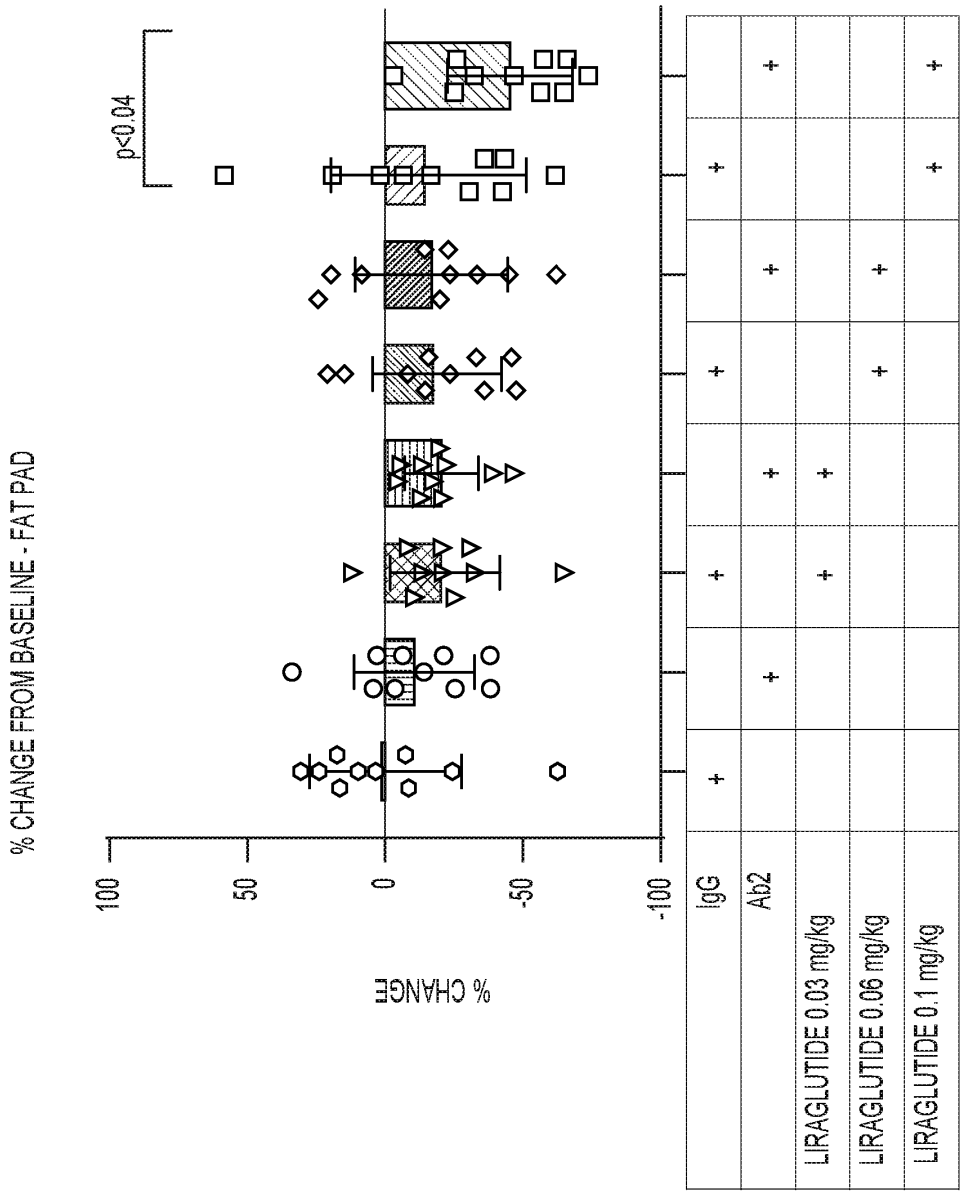

% CHANGE FROM BASELINE - FAT PAD
p<0.04
100
50
0
-50
-100
% CHANGE
IgG
Ab2
LIRAGLUTIDE 0.03 mg/kg
LIRAGLUTIDE 0.06 mg/kg
LIRAGLUTIDE 0.1 mg/kg

FIG. 2F

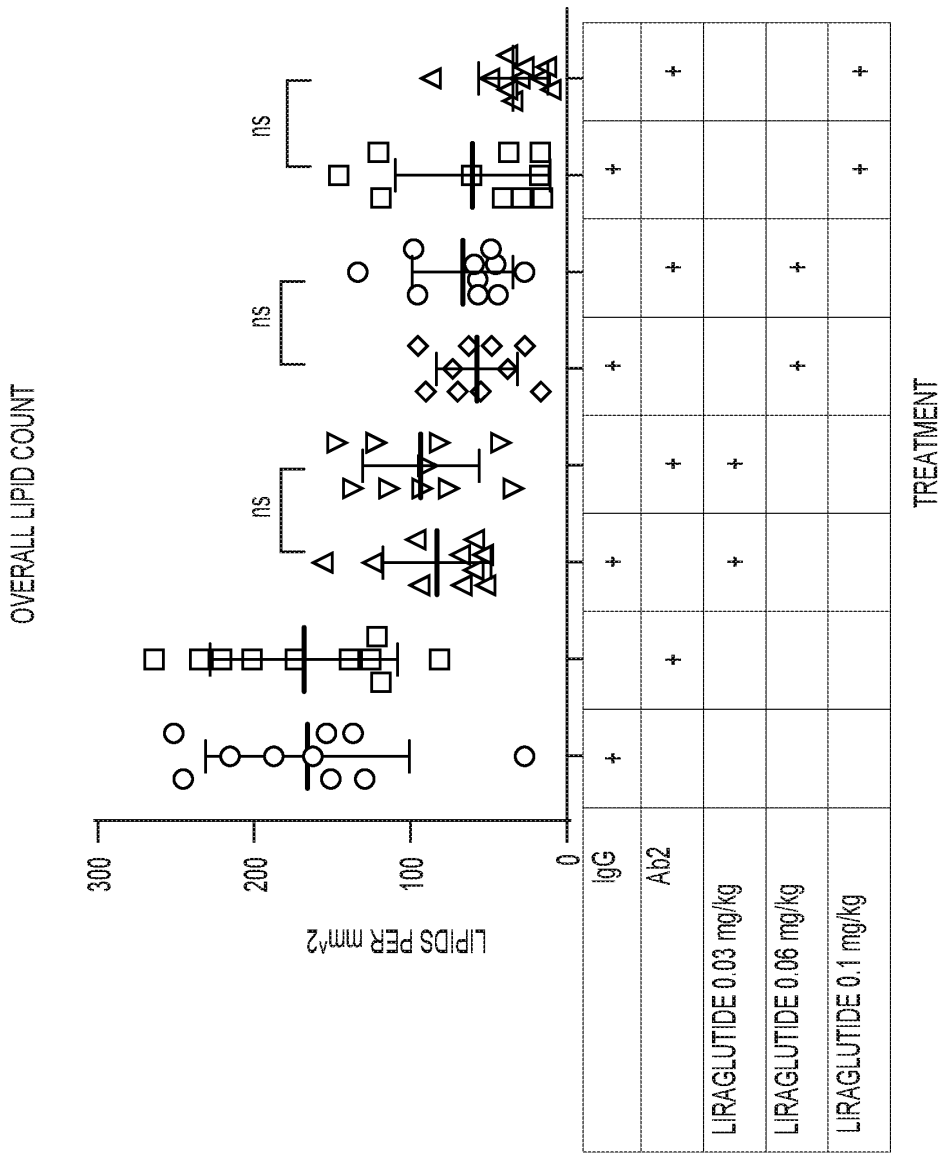

OVERALL LIPID COUNT
LIPIDS PER mm^2
300
200
100
0
ns
ns
ns
IgG
Ab2
LIRAGLUTIDE 0.03 mg/kg
LIRAGLUTIDE 0.06 mg/kg
LIRAGLUTIDE 0.1 mg/kg
TREATMENT

FIG. 2G

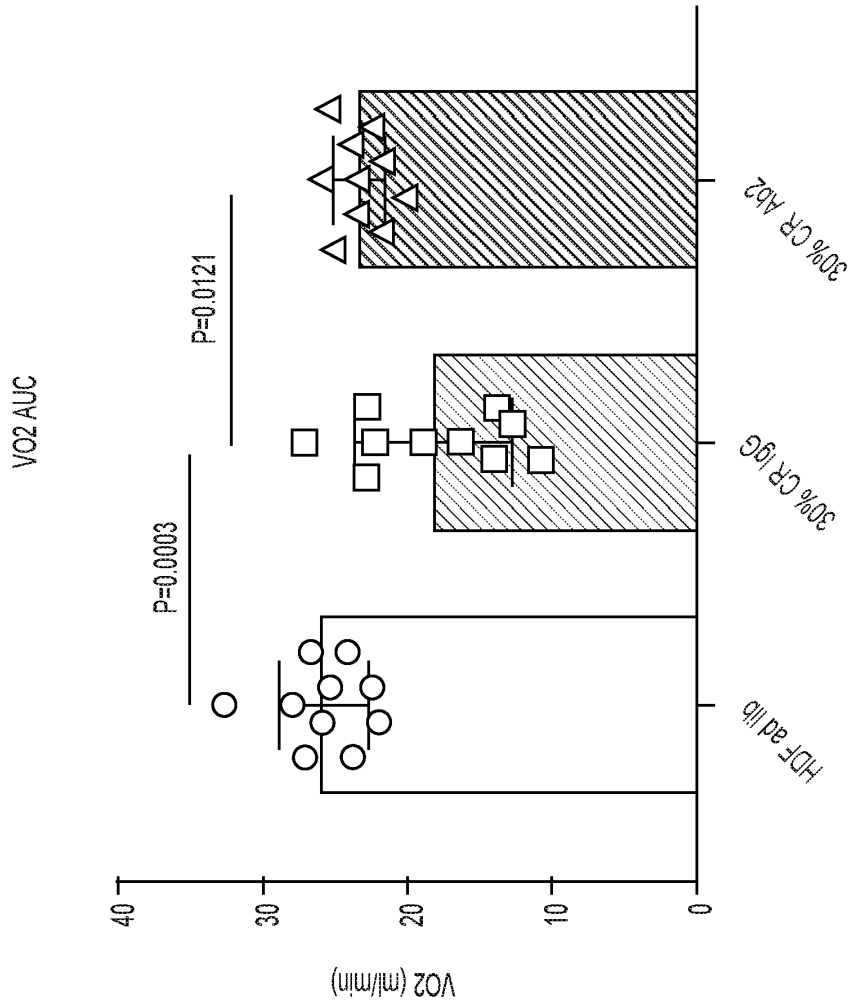

VO2 AUC
P=0.0003
P=0.0121
HDF ad lib
30% CR IgG
30% CR Ab2
VO2 (ml/min)
0
10
20
30
40

FIG. 3A

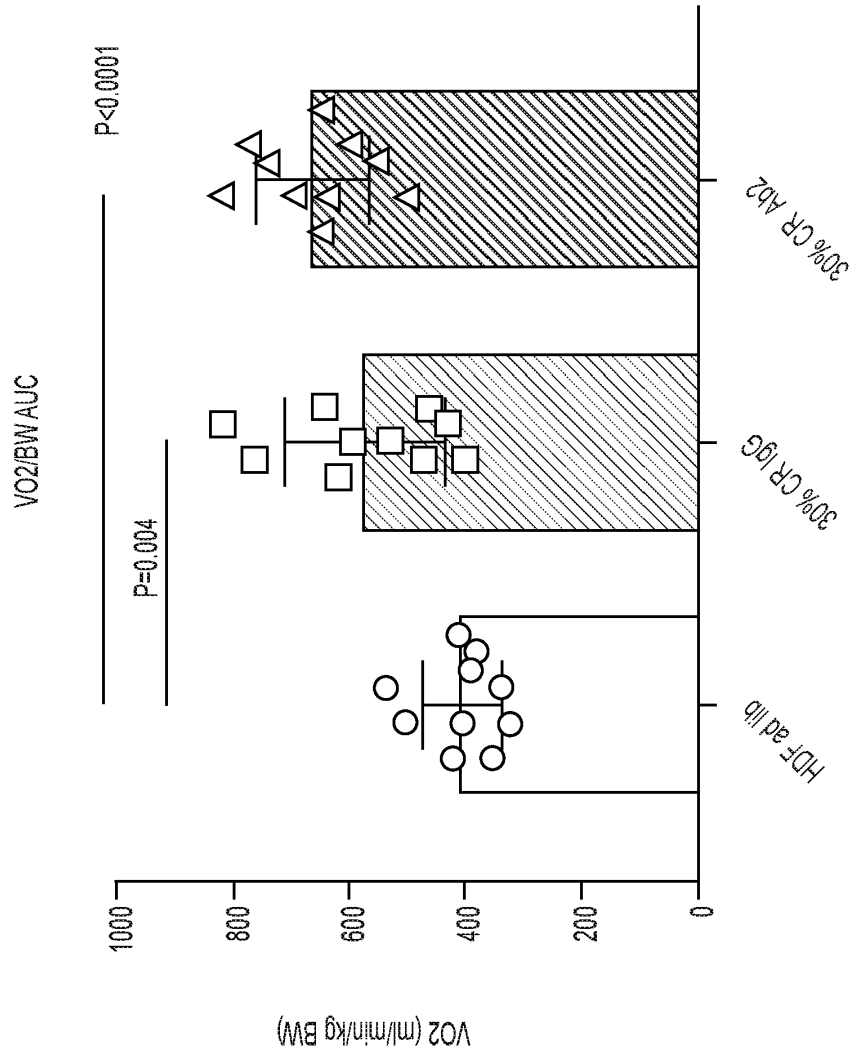

VO2/BW AUC
P<0.0001
P=0.004
VO2 (ml/min/kg BW)
1000
800
600
400
200
0
HDF ad lib
30% CR IgG
30% CR Ab2

FIG. 3B

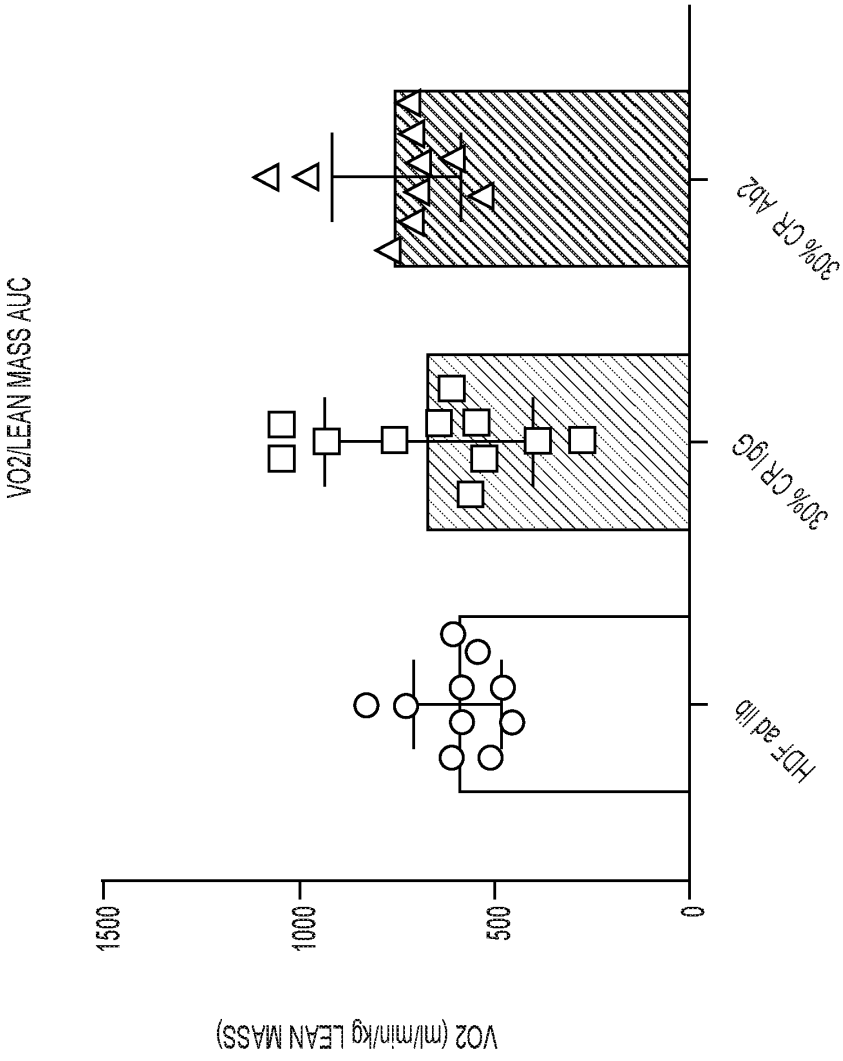

VO2/LEAN MASS AUC
VO2 (ml/min/kg LEAN MASS)
1500
1000
500
0
HDF ad lib
30% CR IgG
30% CR Ab2

FIG. 3C

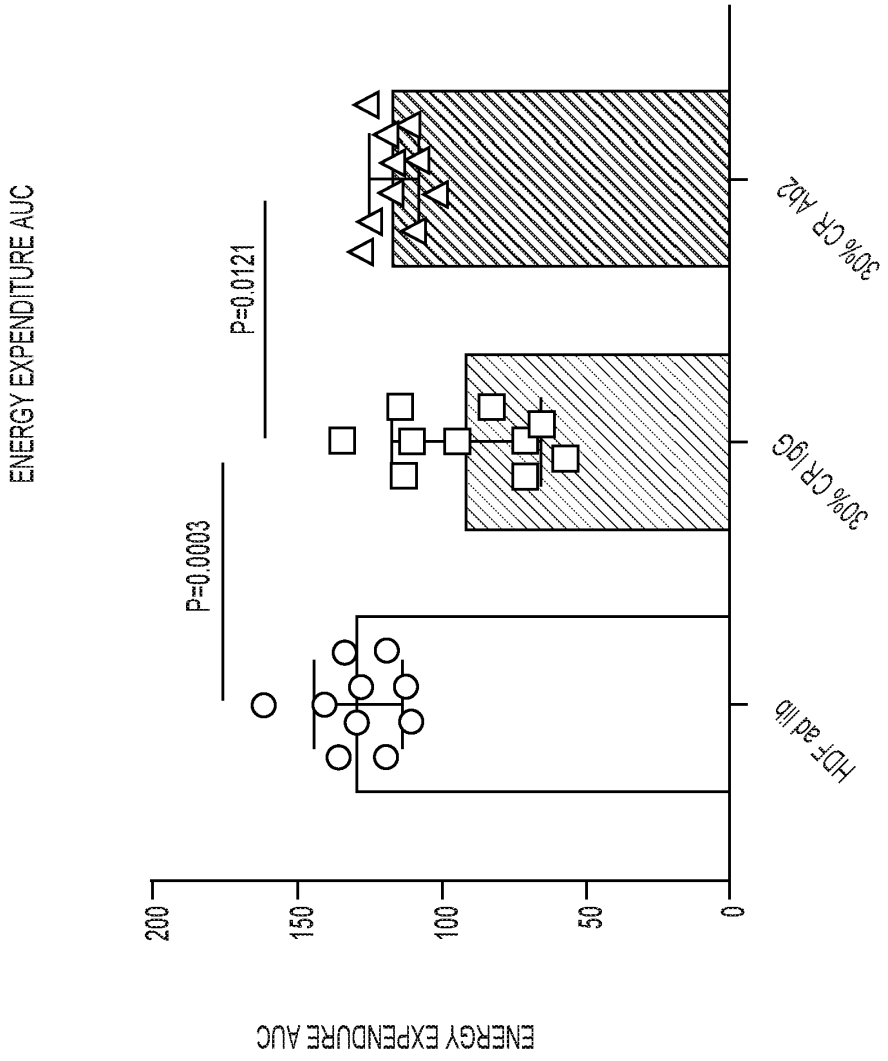

ENERGY EXPENDITURE AUC
P=0.0003
P=0.0121
HDF ad lib
30% CR IGG
30% CR A02
0
50
100
150
200
ENERGY EXPENDURE AUC

FIG. 3D

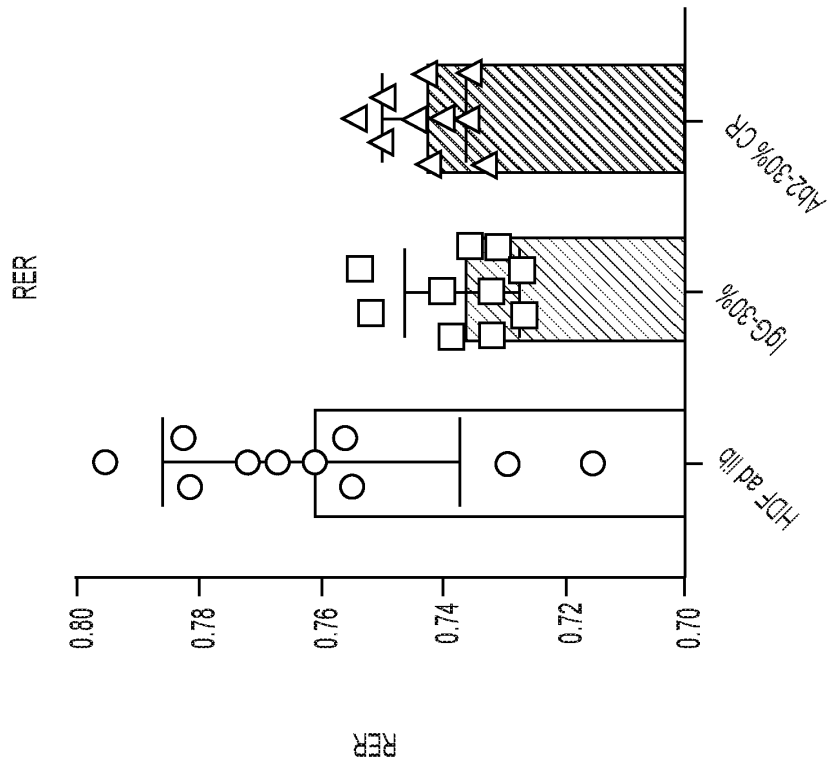


FIG. 3E

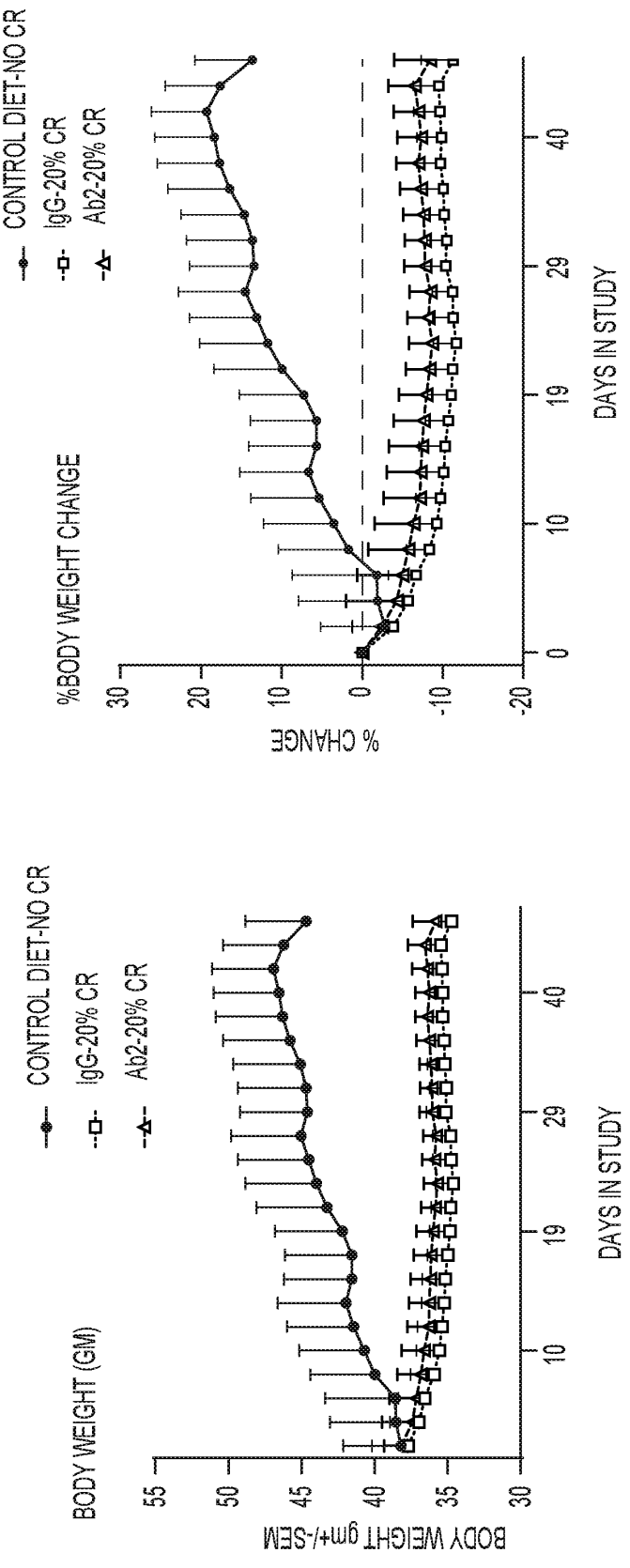

CONTROL DIET-NO CR
IgG-20% CR
Ab2-20% CR
%BODY WEIGHT CHANGE
% CHANGE
DAYS IN STUDY
BODY WEIGHT (GM)
BODY WEIGHT gm+/-SEM
DAYS IN STUDY

FIG. 4

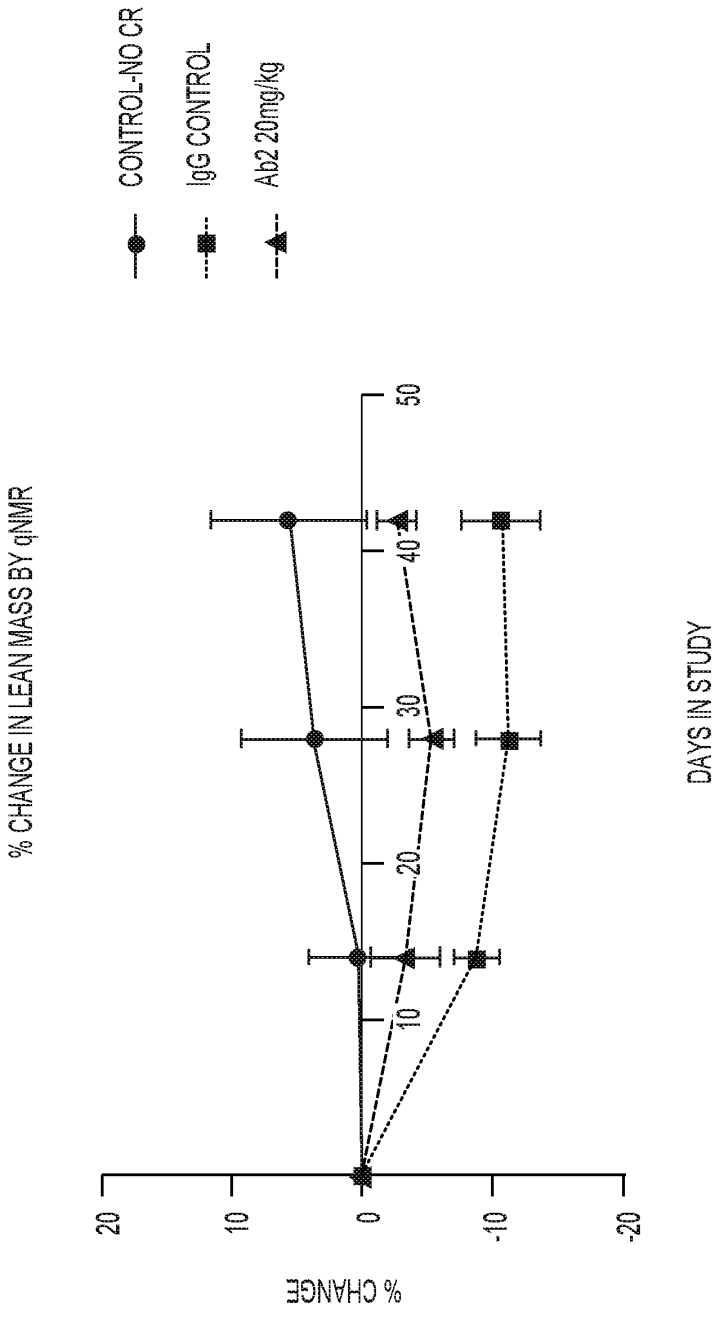

CONTROL-NO CR
IgG CONTROL
Ab2 20mg/kg
% CHANGE IN LEAN MASS BY qNMR
% CHANGE
20
10
0
-10
-20
10
20
30
40
50
DAYS IN STUDY

FIG. 5A

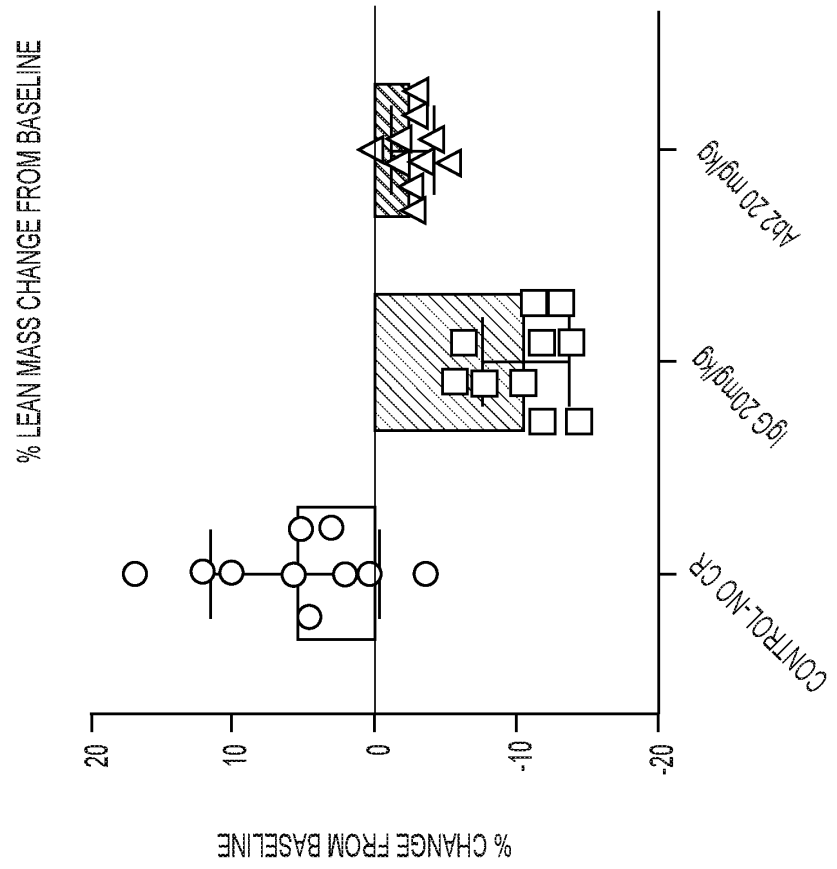

% LEAN MASS CHANGE FROM BASELINE
% CHANGE FROM BASELINE
20
10
0
-10
-20
CONTROL-NO CR
IgG 20mg/kg
Ab2 20 mg/kg

FIG. 5B

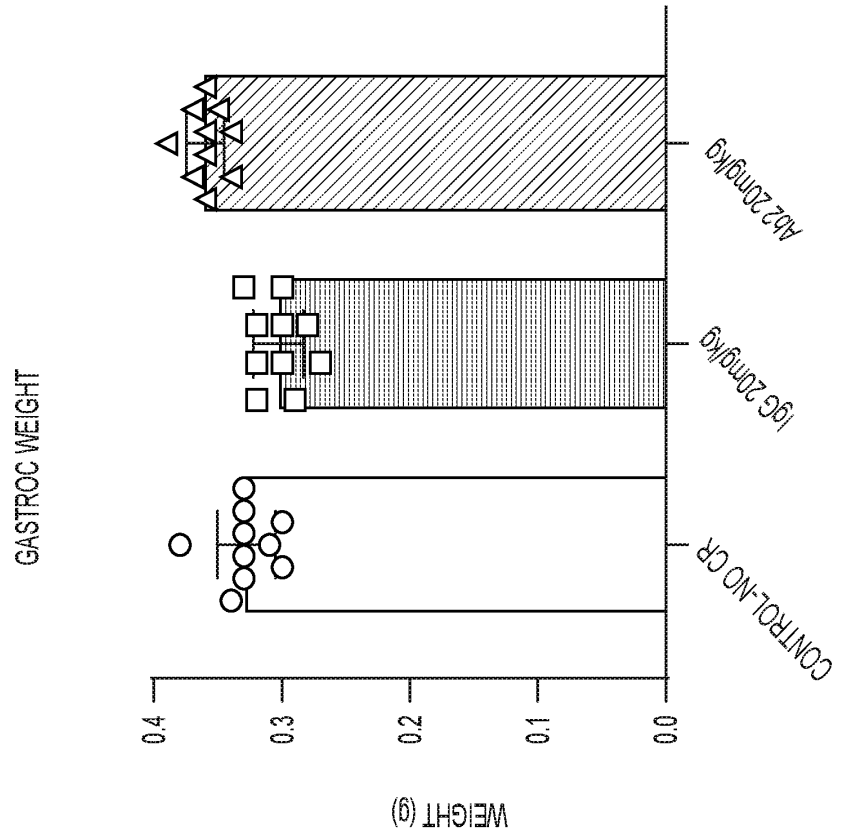

GASTROC WEIGHT
CONTROL-NO CR
IgG 20mg/kg
Ab2 20mg/kg
0.0
0.1
0.2
0.3
0.4
WEIGHT (g)

FIG. 5C

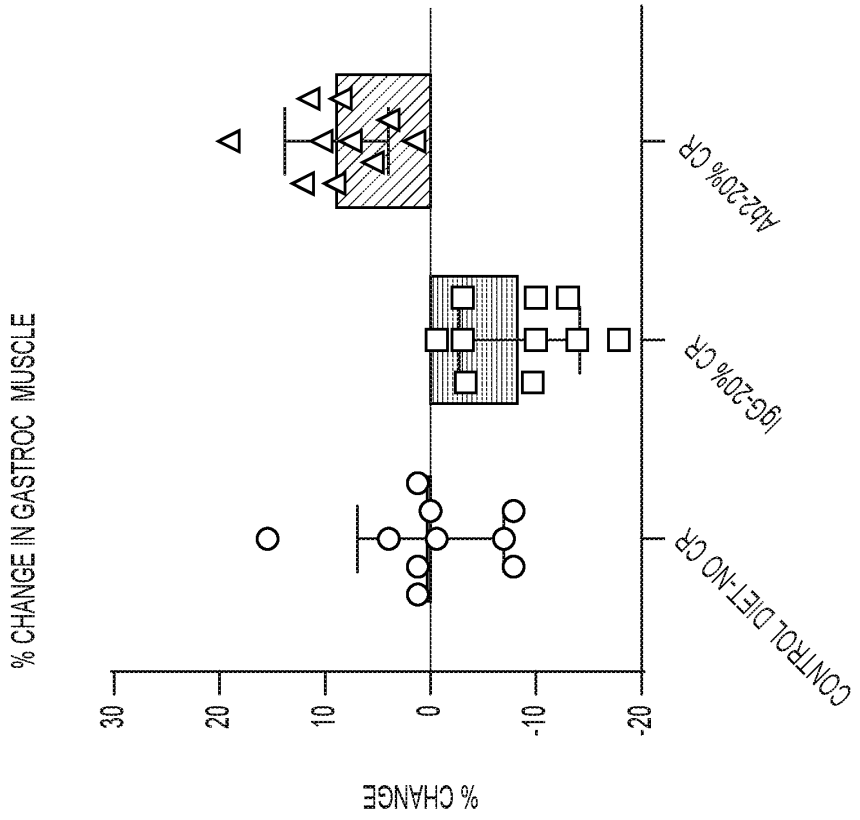

% CHANGE IN GASTROC MUSCLE
30
20
10
0
-10
-20
% CHANGE
CONTROL DIET-NO CR
IgG-20% CR
Ab2-20% CR

FIG. 5D

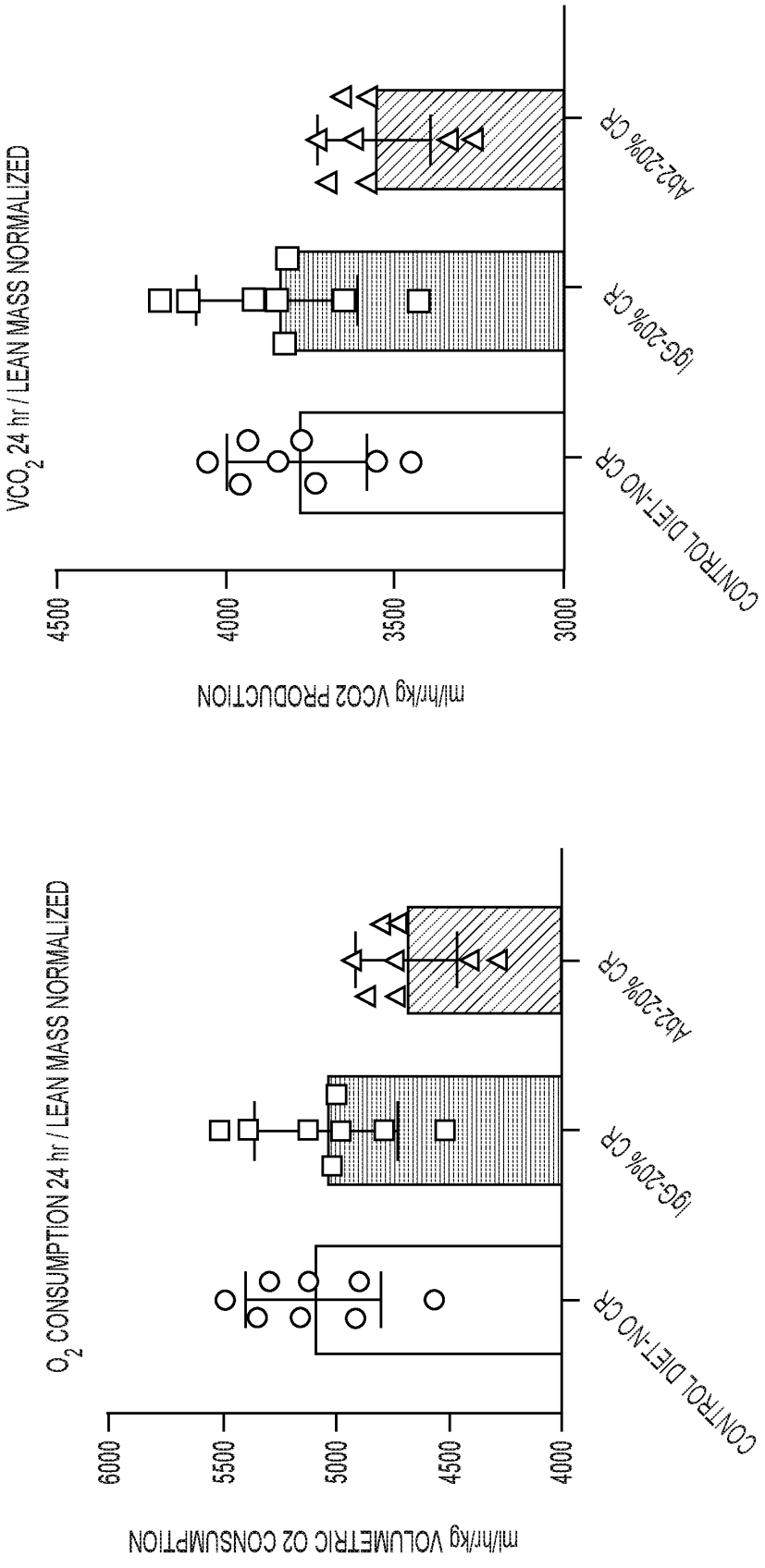

VCO2 24 hr / LEAN MASS NORMALIZED
ml/hr/kg VCO2 PRODUCTION
4500
4000
3500
3000
CONTROL DIET-NO CR
IgG-20% CR
Ab2-20% CR
O2 CONSUMPTION 24 hr / LEAN MASS NORMALIZED
ml/hr/kg VOLUMETRIC O2 CONSUMPTION
6000
5500
5000
4500
4000
CONTROL DIET-NO CR
IgG-20% CR
Ab2-20% CR

FIG. 5E

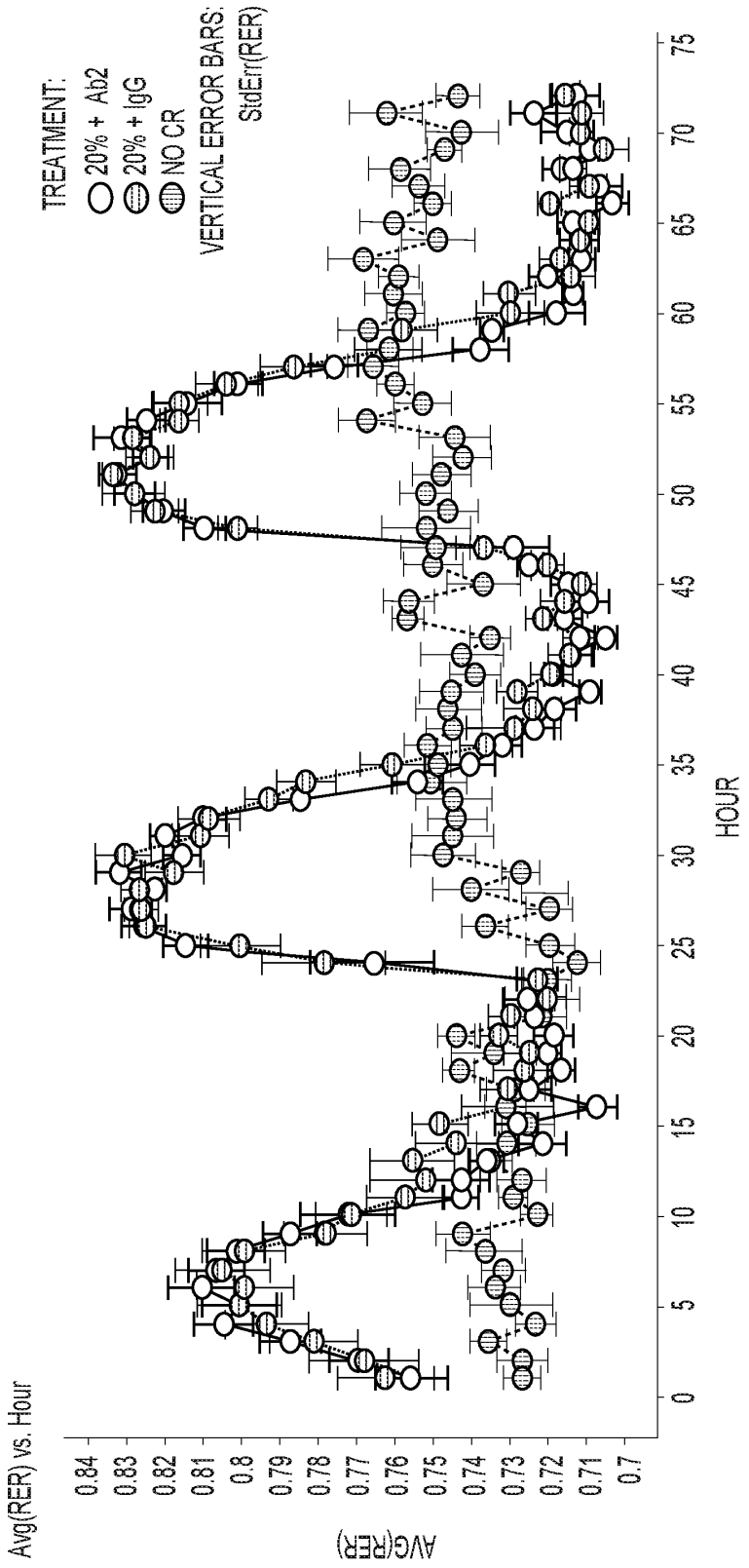

Avg(RER) vs. Hour
TREATMENT:
20% + Ab2
20% + IgG
NO CR
VERTICAL ERROR BARS:
StdErr(RER)
AVG(RER)
HOUR
0.84
0.83
0.82
0.81
0.8
0.79
0.78
0.77
0.76
0.75
0.74
0.73
0.72
0.71
0.7
0
5
10
15
20
25
30
35
40
45
50
55
60
65
70
75

FIG. 5F

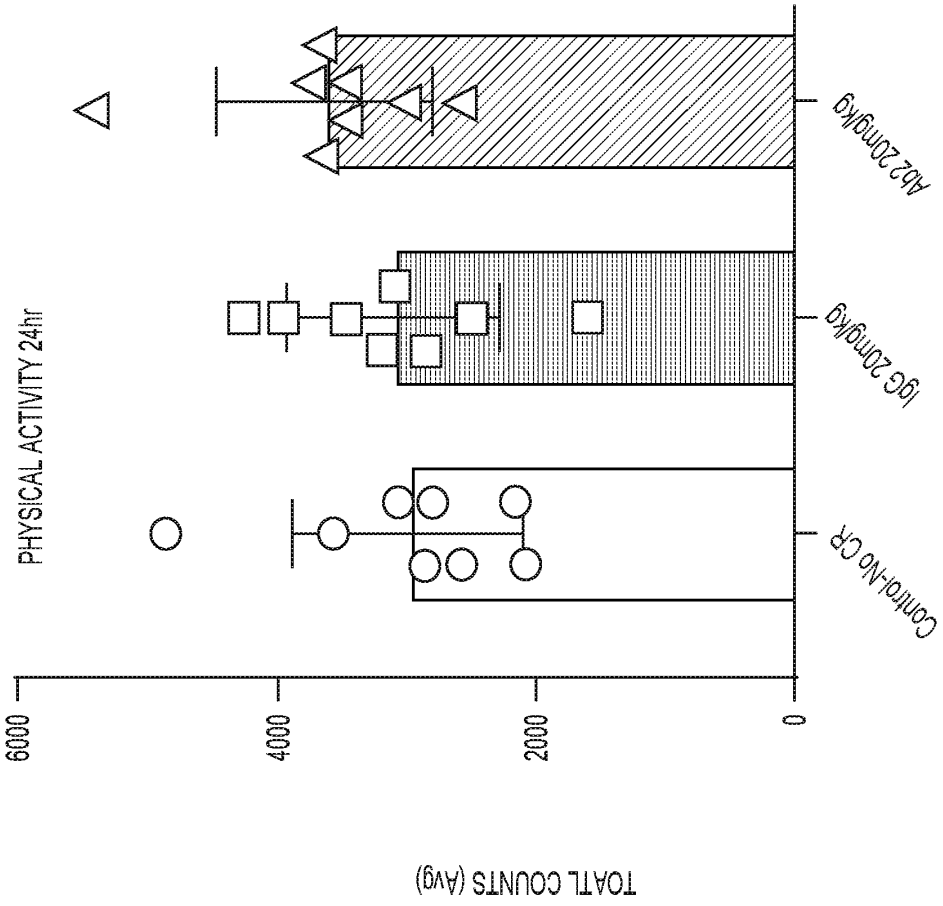

PHYSICAL ACTIVITY 24hr
TOATL COUNTS (Avg)
6000
4000
2000
0
Control-No CR
IgG 20mg/kg
Ab2 20mg/kg

FIG. 5G

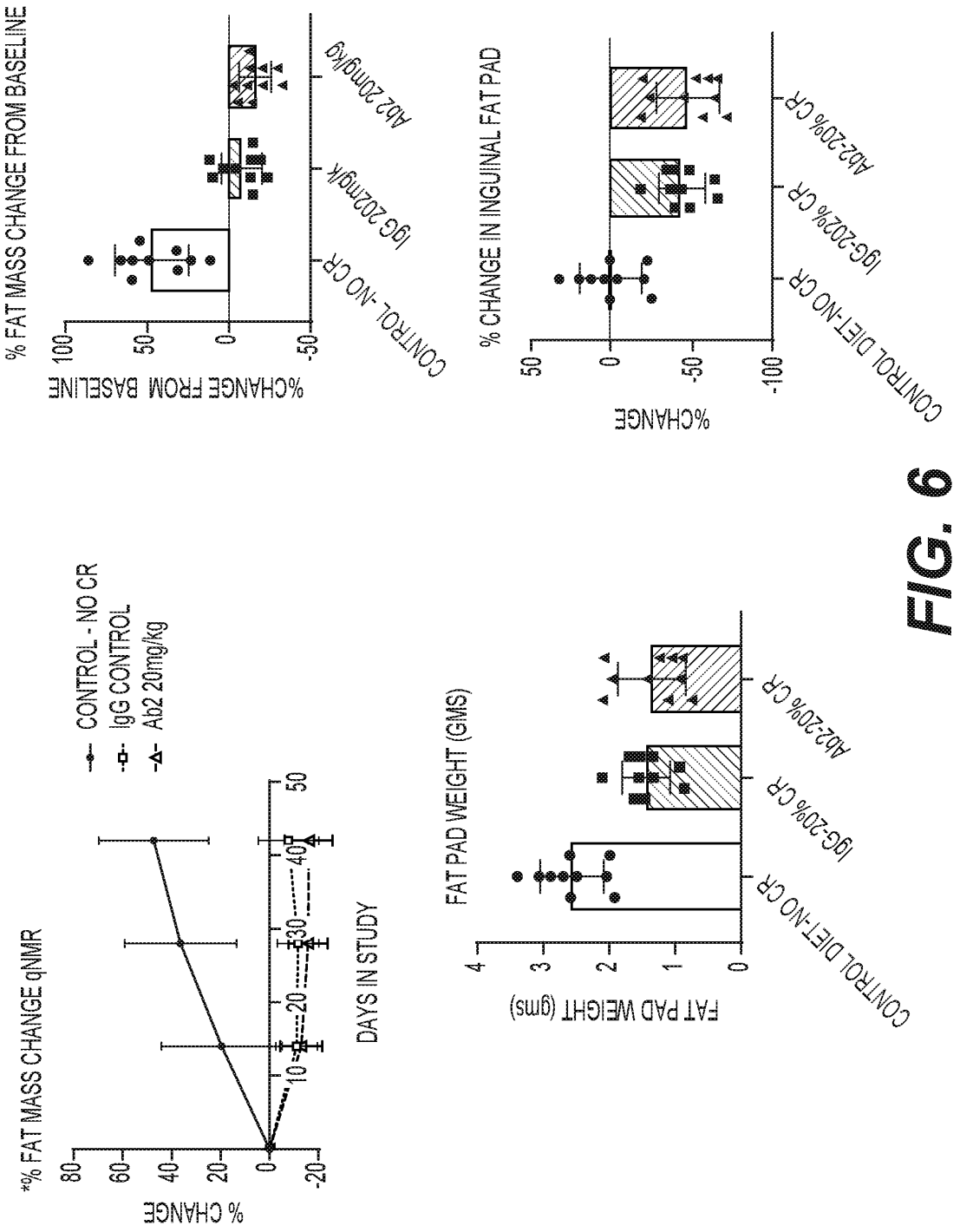
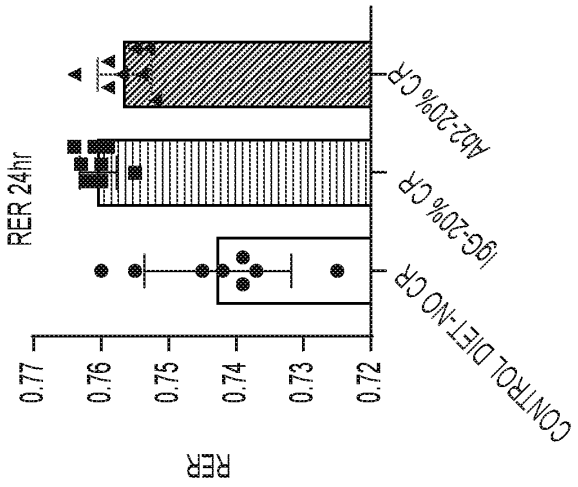

% FAT MASS CHANGE FROM BASELINE
%CHANGE FROM BASELINE
100
50
0
-50
CONTROL -NO CR
IgG 20mg/k
Ab2 20mg/kg
% CHANGE IN INGUINAL FAT PAD
%CHANGE
50
0
-50
-100
CONTROL DIET-NO CR
IgG-20% CR
Ab2-20% CR
*% FAT MASS CHANGE qNMR
% CHANGE
80
60
40
20
0
-20
10
20
30
40
50
DAYS IN STUDY
CONTROL - NO CR
IgG CONTROL
Ab2 20mg/kg
FAT PAD WEIGHT (GMS)
FAT PAD WEIGHT (gms)
4
3
2
1
0
CONTROL DIET-NO CR
IgG-20% CR
Ab2-20% CR

FIG. 6


RER 24hr
RER
0.77
0.76
0.75
0.74
0.73
0.72
CONTROL DIET-NO CR
IgG-20% CR
Ab2-20% CR

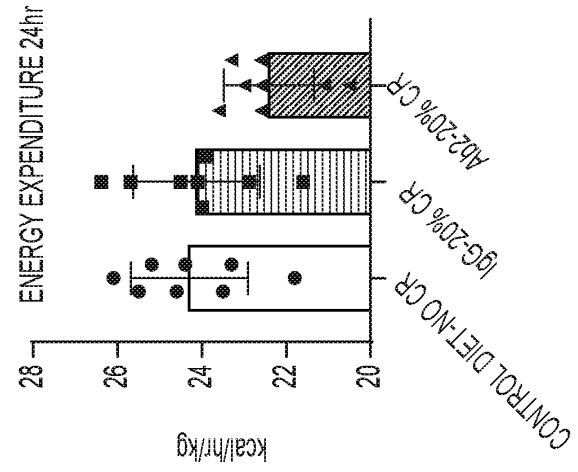

ENERGY EXPENDITURE 24hr
kcal/hr/kg
28
26
24
22
20
CONTROL DIET-NO CR
IgG-20% CR
Ab2-20% CR

FIG. 7