Figure 1

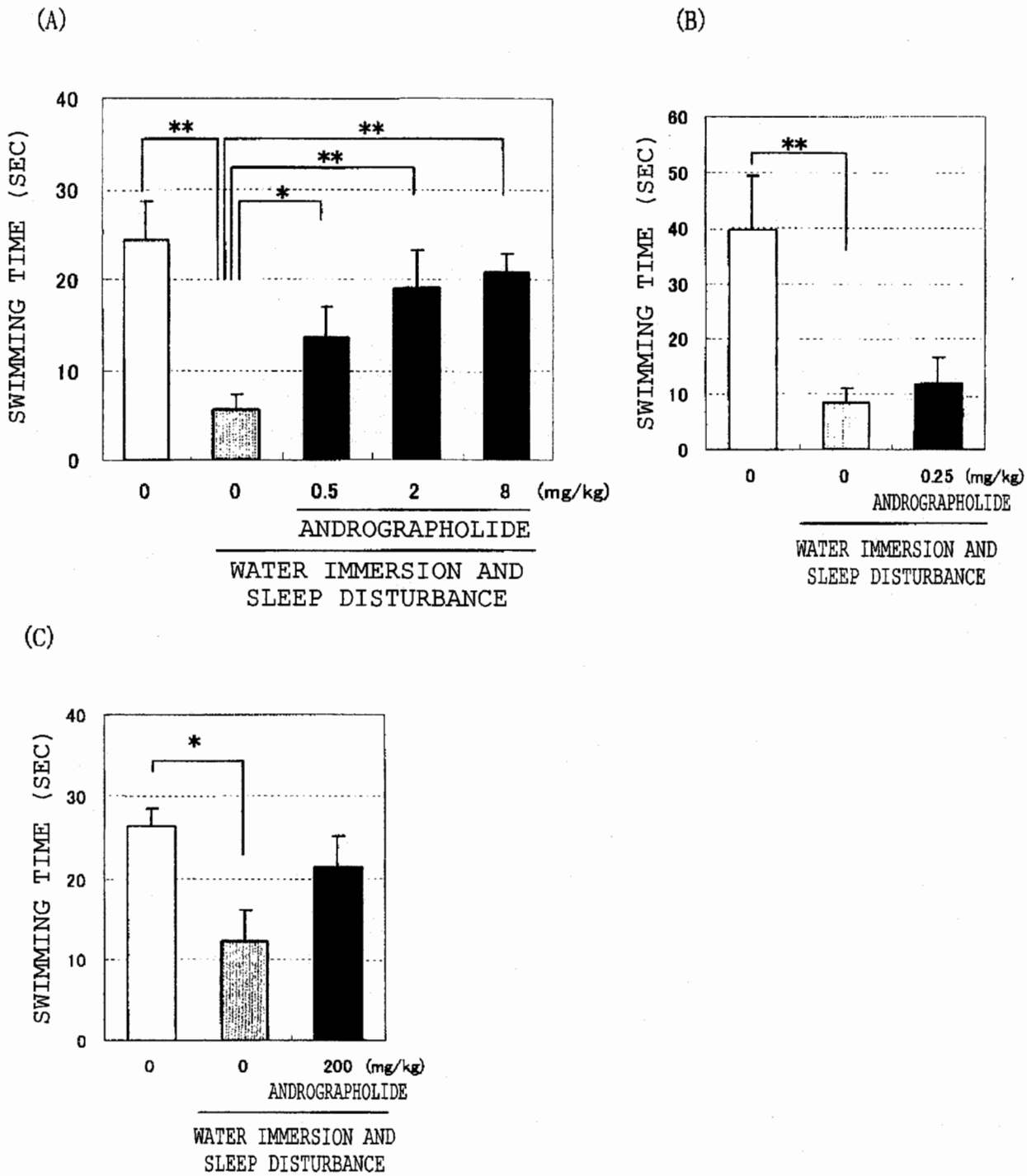
(A)
SWIMMING TIME (SEC)
40
30
20
10
0
**
**
**
*
0
0
0.5
2
8
(mg/kg)
ANDROGRAPHOLIDE
WATER IMMERSION AND
SLEEP DISTURBANCE
(B)
SWIMMING TIME (SEC)
60
50
40
30
20
10
0
**
0
0
0.25 (mg/kg)
ANDROGRAPHOLIDE
WATER IMMERSION AND
SLEEP DISTURBANCE
(C)
SWIMMING TIME (SEC)
40
30
20
10
0
*
0
0
200 (mg/kg)
ANDROGRAPHOLIDE
WATER IMMERSION AND
SLEEP DISTURBANCE

Figure 2

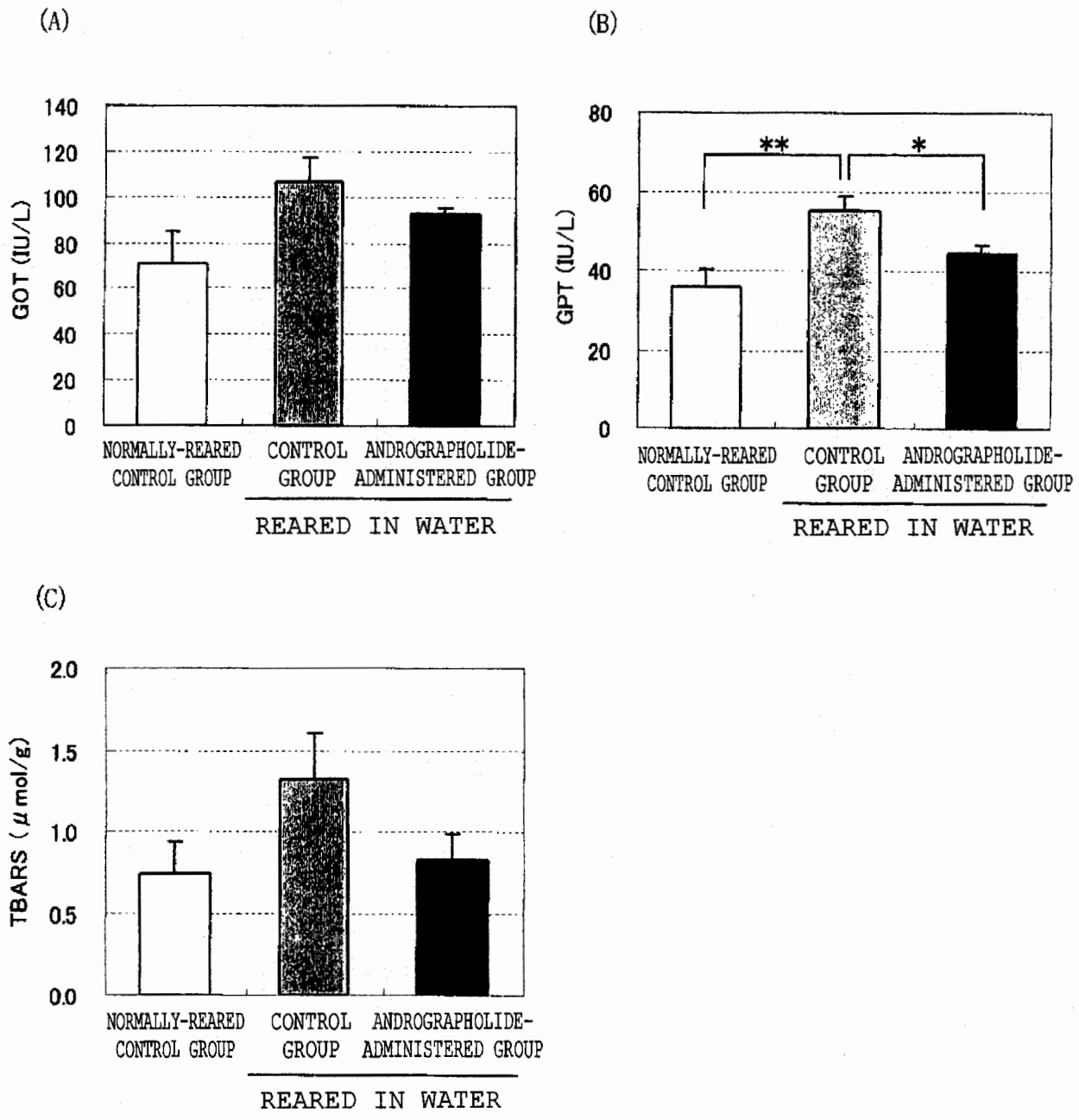
(A)
GOT (IU/L)
140
120
100
80
60
40
20
0
NORMALLY-REARED CONTROL GROUP
CONTROL GROUP
ANDROGRAPHOLIDE-ADMINISTERED GROUP
REARED IN WATER
(B)
GPT (IU/L)
80
60
40
20
0
**
*
NORMALLY-REARED CONTROL GROUP
CONTROL GROUP
ANDROGRAPHOLIDE-ADMINISTERED GROUP
REARED IN WATER
(C)
TBARS (μmol/g)
2.0
1.5
1.0
0.5
0.0
NORMALLY-REARED CONTROL GROUP
CONTROL GROUP
ANDROGRAPHOLIDE-ADMINISTERED GROUP
REARED IN WATER

Figure 3

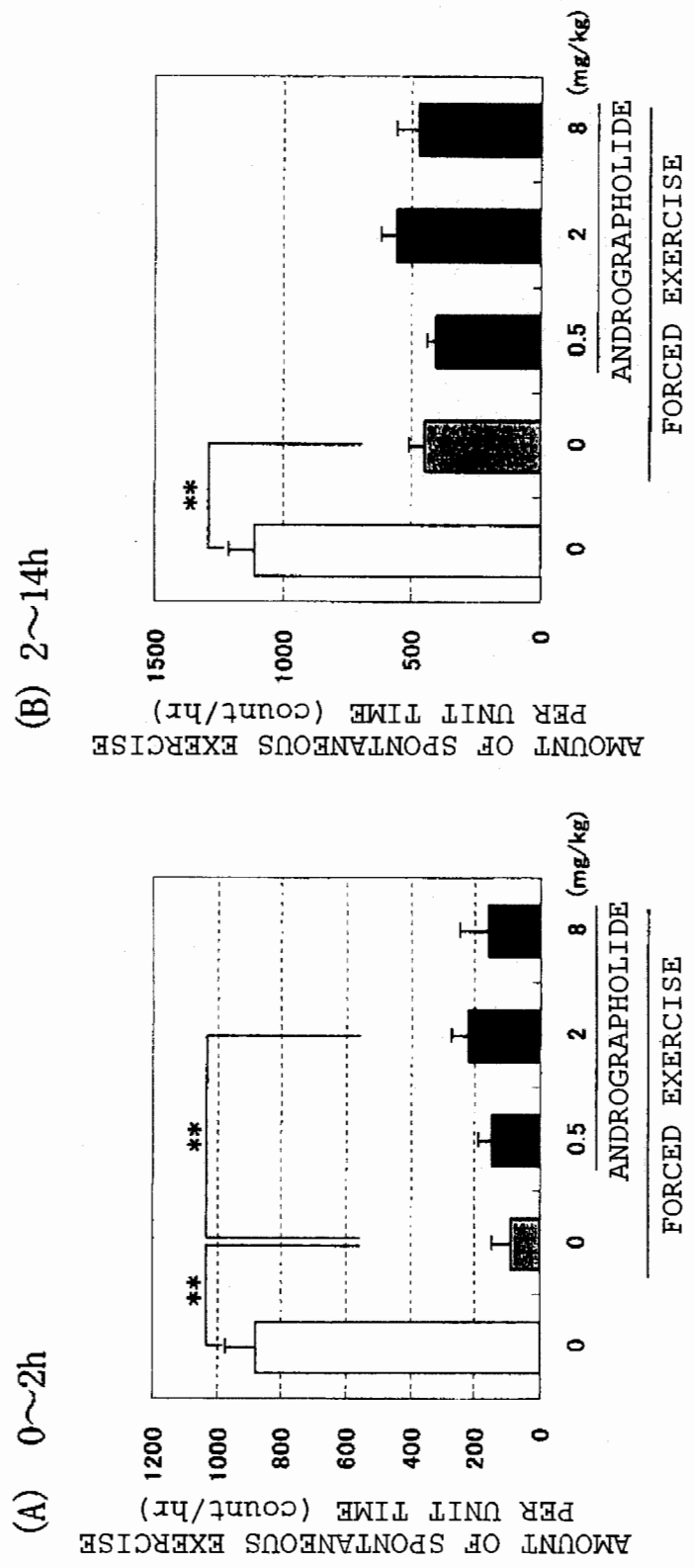
(A) 0~2h
AMOUNT OF SPONTANEOUS EXERCISE
PER UNIT TIME (count/hr)
1200
1000
800
600
400
200
0
**
**
0
0
0.5
2
8 (mg/kg)
ANDROGRAPHOLIDE
FORCED EXERCISE
(B) 2~14h
AMOUNT OF SPONTANEOUS EXERCISE
PER UNIT TIME (count/hr)
1500
1000
500
0
**
0
0
0.5
2
8 (mg/kg)
ANDROGRAPHOLIDE
FORCED EXERCISE

Figure 4

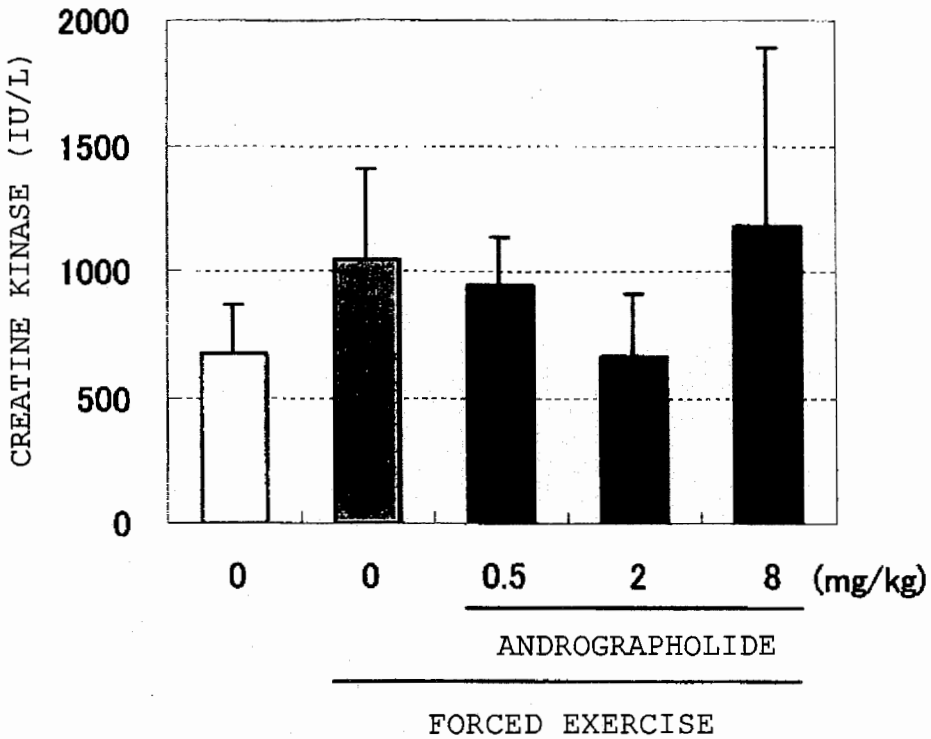

Figure 5

