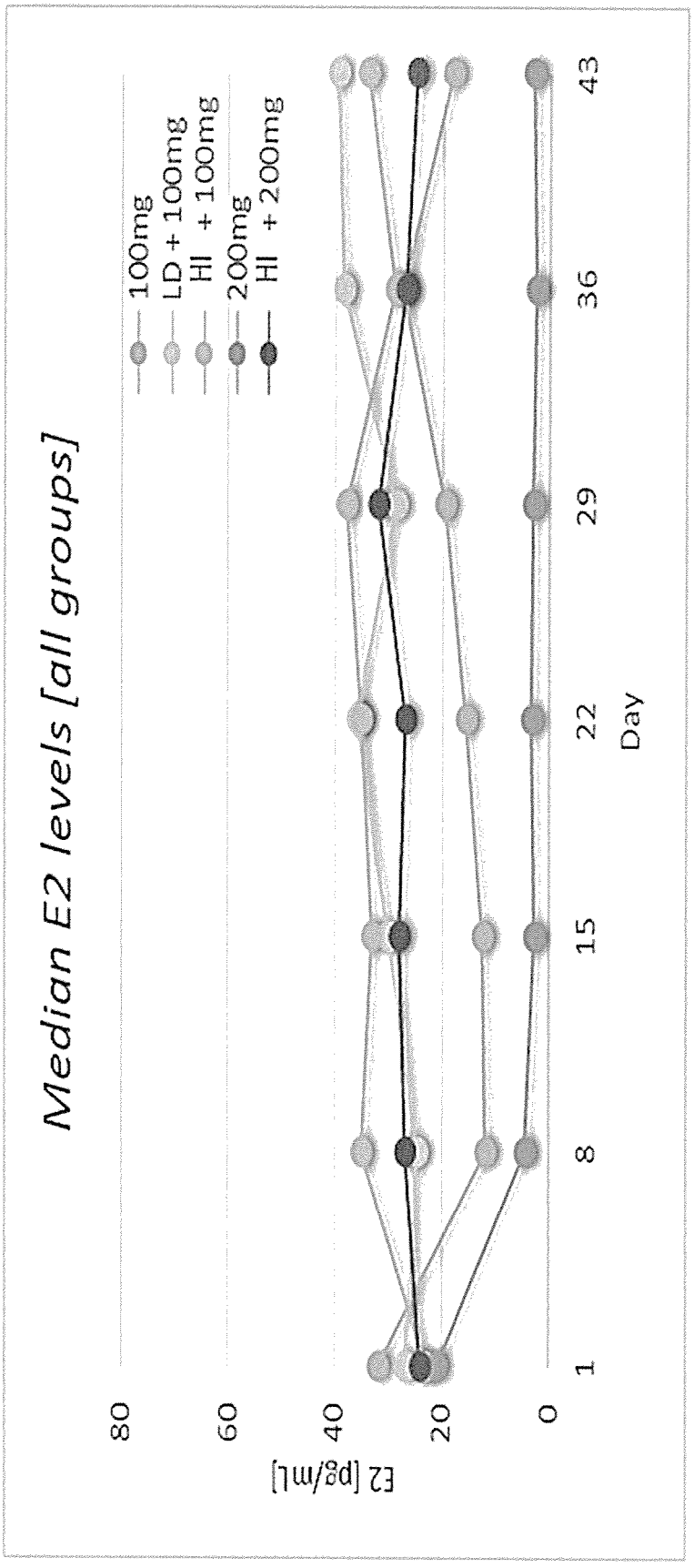

Median E2 levels [all groups]
100mg
LD + 100mg
HI + 100mg
200mg
HI + 200mg
E2 [pg/mL]
0
20
40
60
80
1
8
15
22
29
36
43
Day

Fig. 1

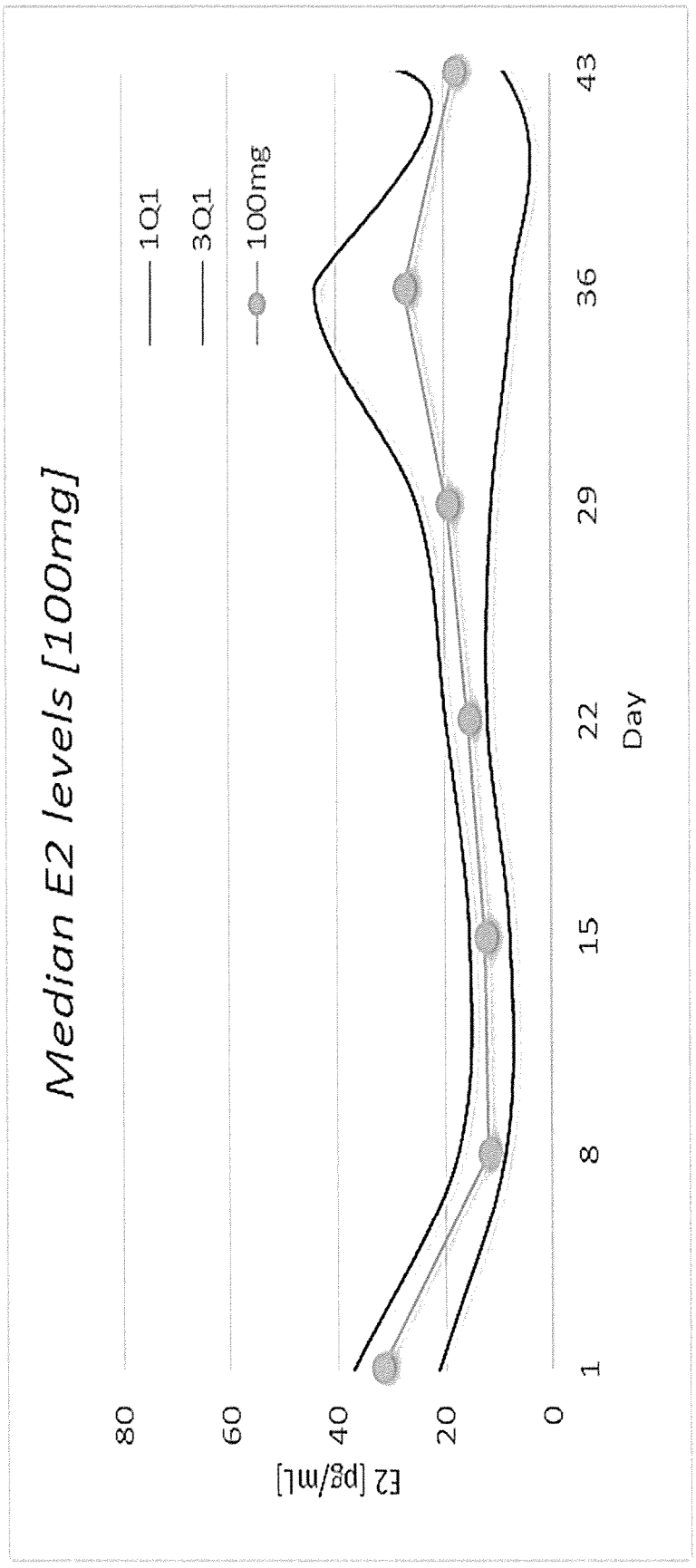

Median E2 levels [100mg]
1Q1
3Q1
100mg
E2 [pg/mL]
0
20
40
60
80
1
8
15
22
29
36
43
Day

Fig. 2

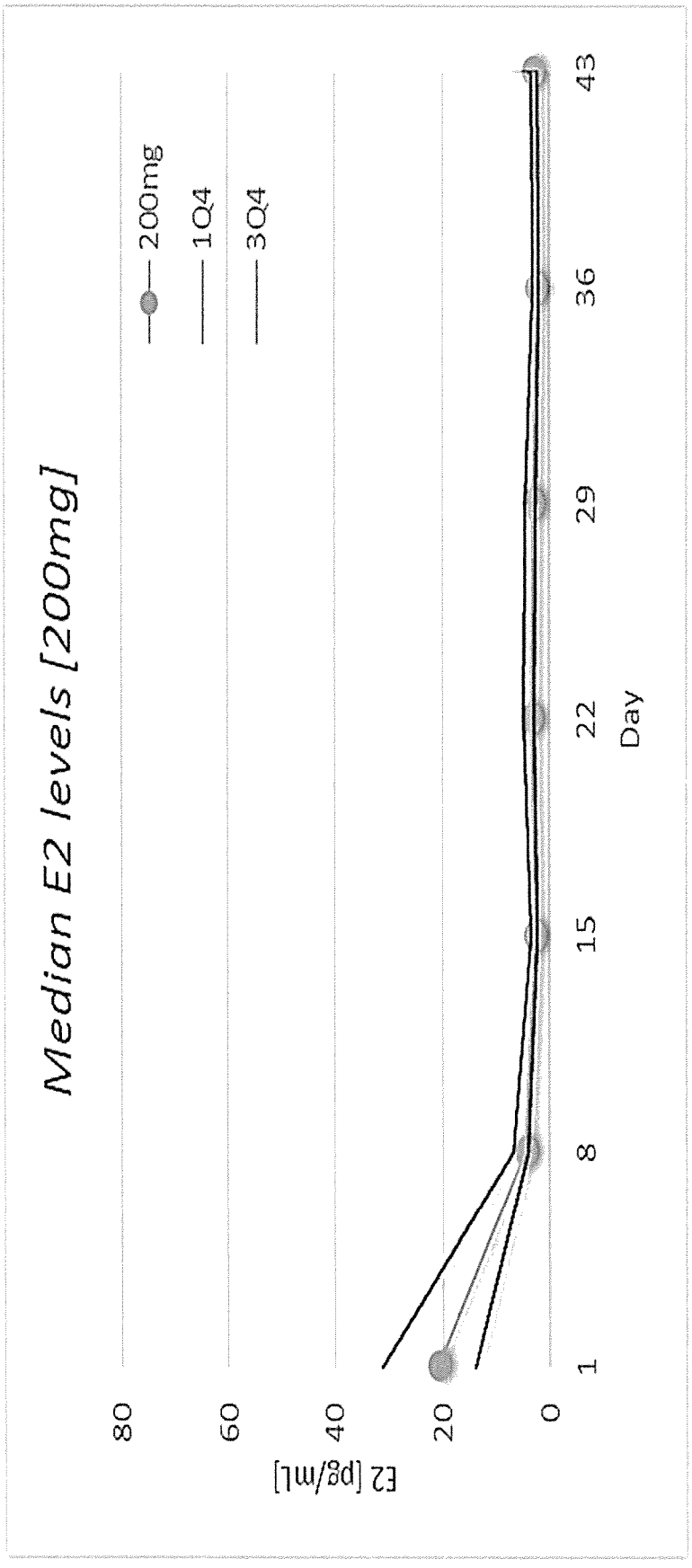

Median E2 levels [200mg]
200mg
1Q4
3Q4
E2 [pg/mL]
80
60
40
20
0
1
8
15
22
29
36
43
Day

Fig. 3

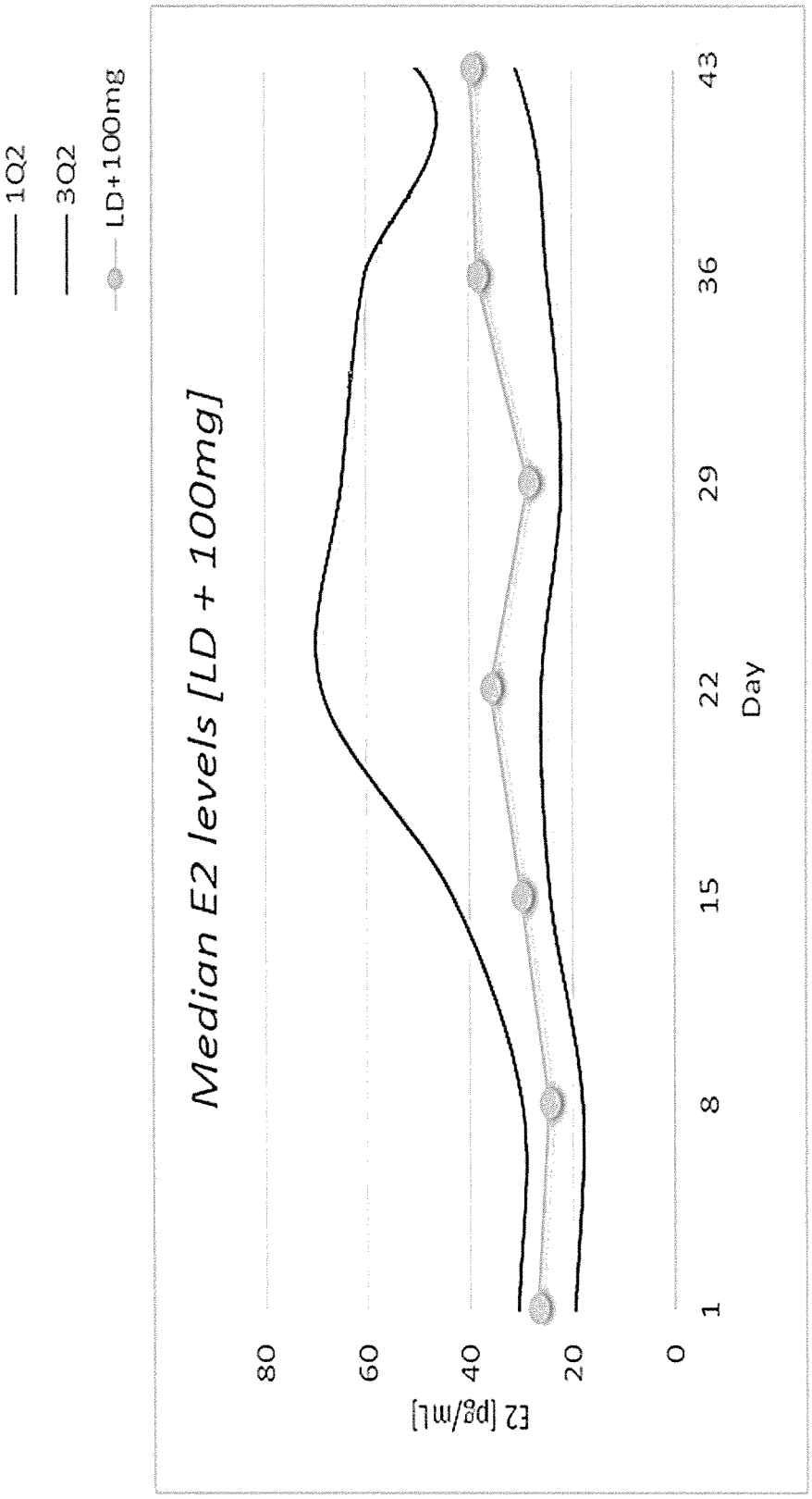

Median E2 levels [LD + 100mg]
1Q2
3Q2
LD+100mg
E2 [pg/mL]
0
20
40
60
80
1
8
15
22
29
36
43
Day

Fig. 4

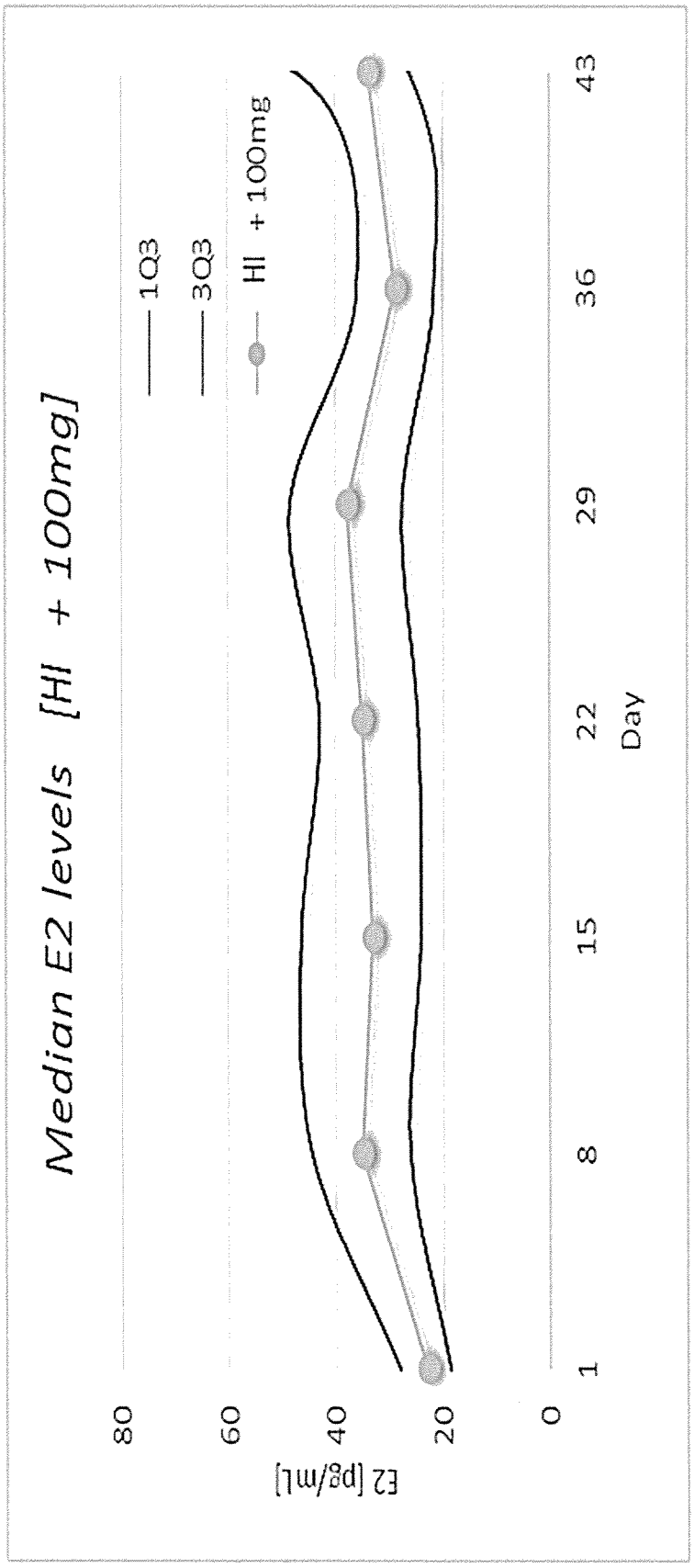

Median E2 levels [HI + 100mg]
1Q3
3Q3
HI + 100mg
E2 [pg/mL]
80
60
40
20
0
1
8
15
22
29
36
43
Day

Fig. 5

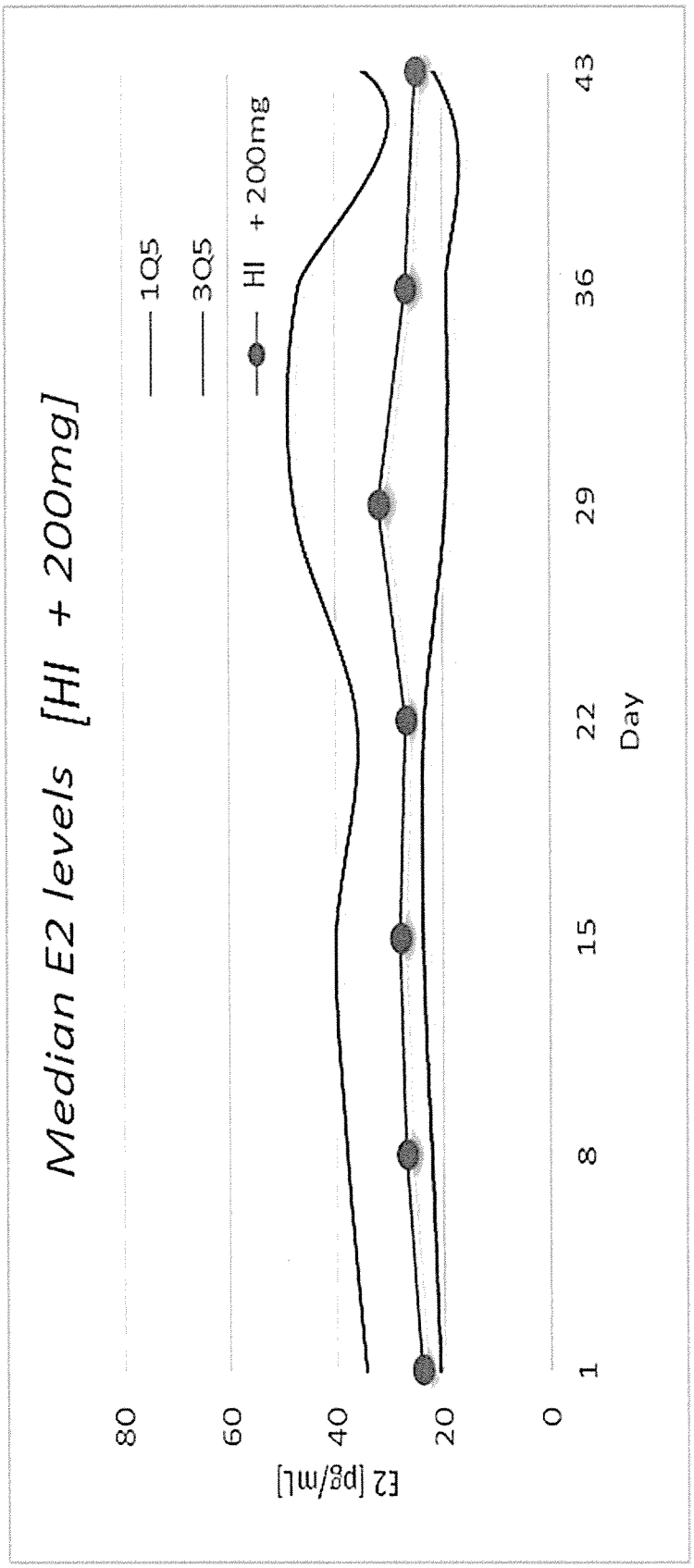
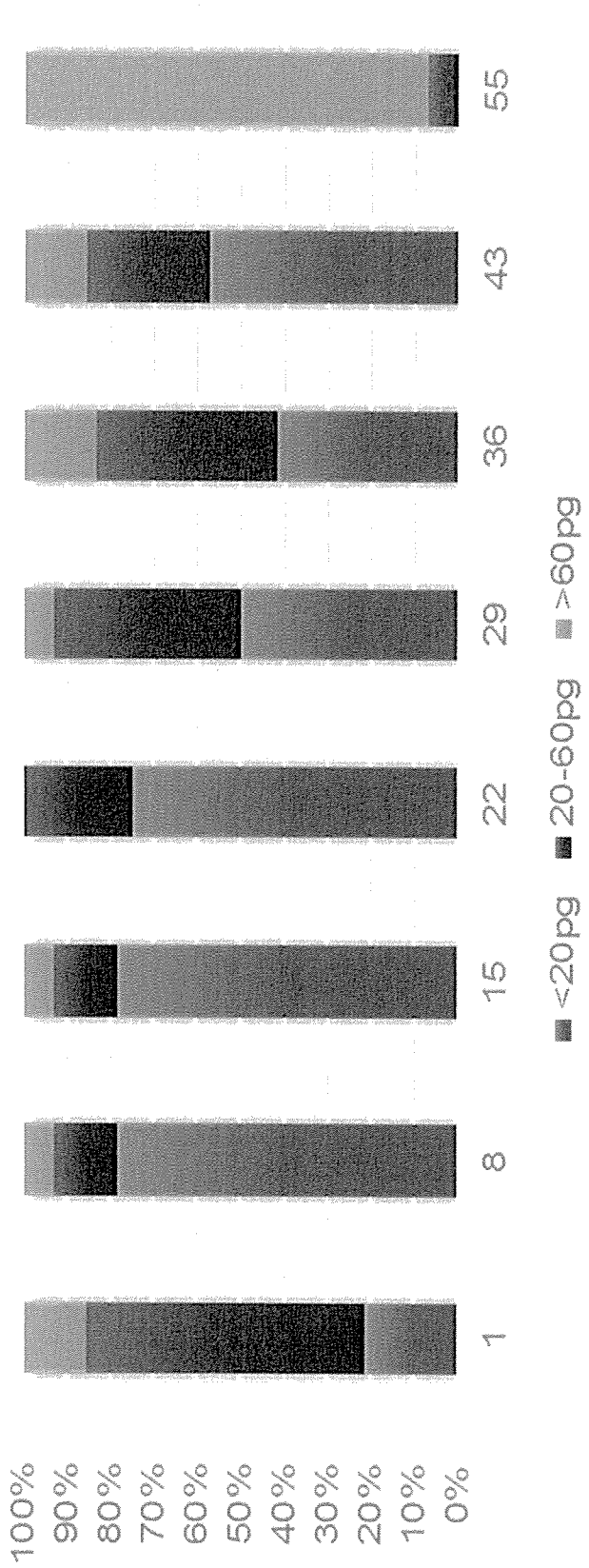

Median E2 levels [HI + 200mg]
1Q5
3Q5
HI + 200mg
E2 [pg/mL]
80
60
40
20
0
1
8
15
22
29
36
43
Day

Fig. 6

Fig. 7


100mg
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
1
8
15
22
29
36
43
55
<20pg
20-60pg
>60pg

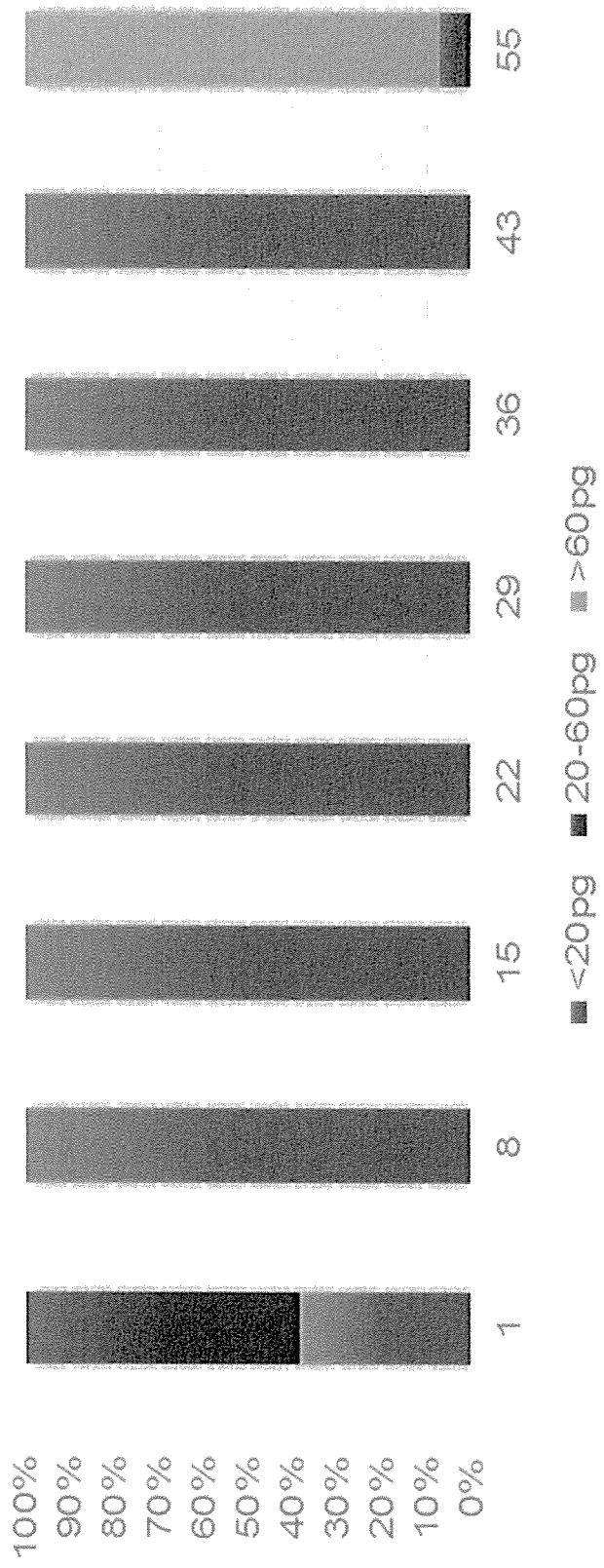

200mg
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
1
8
15
22
29
36
43
55
<20pg
20-60pg
>60pg

Fig. 8

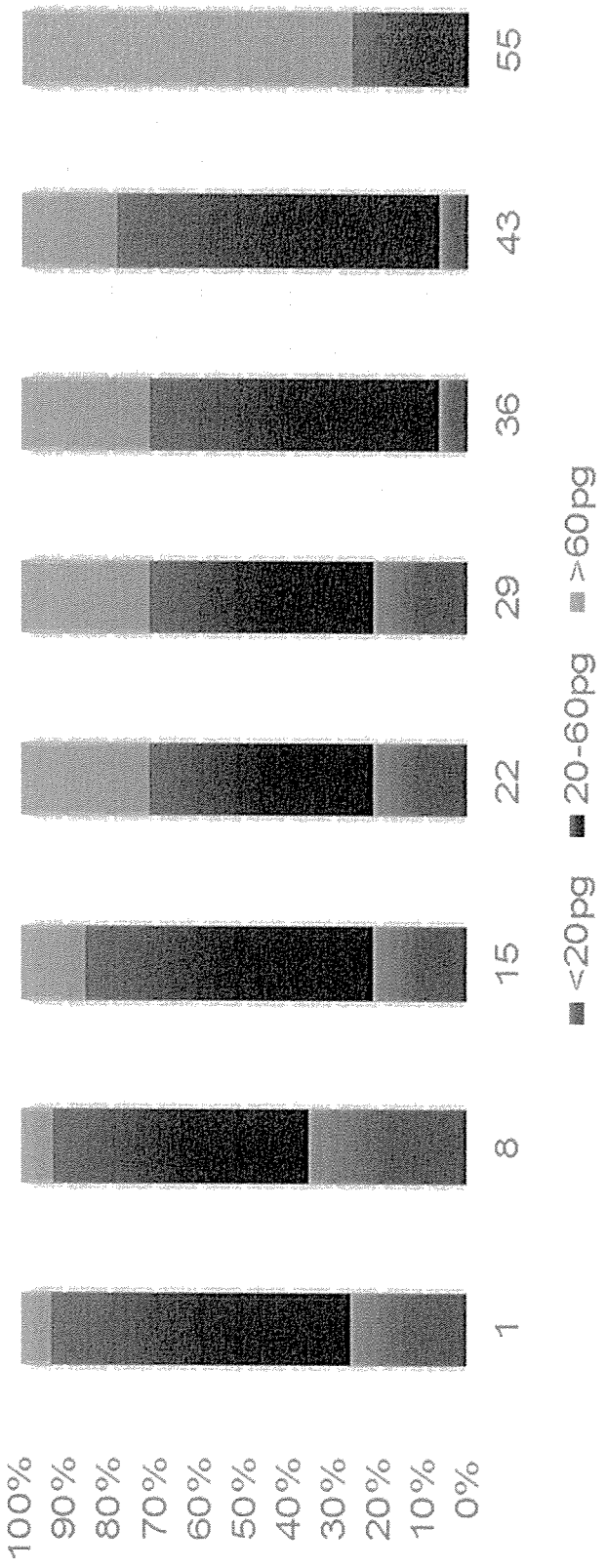

LD + 100mg
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
1
8
15
22
29
36
43
55
<20pg
20-60pg
>60pg

Fig. 9

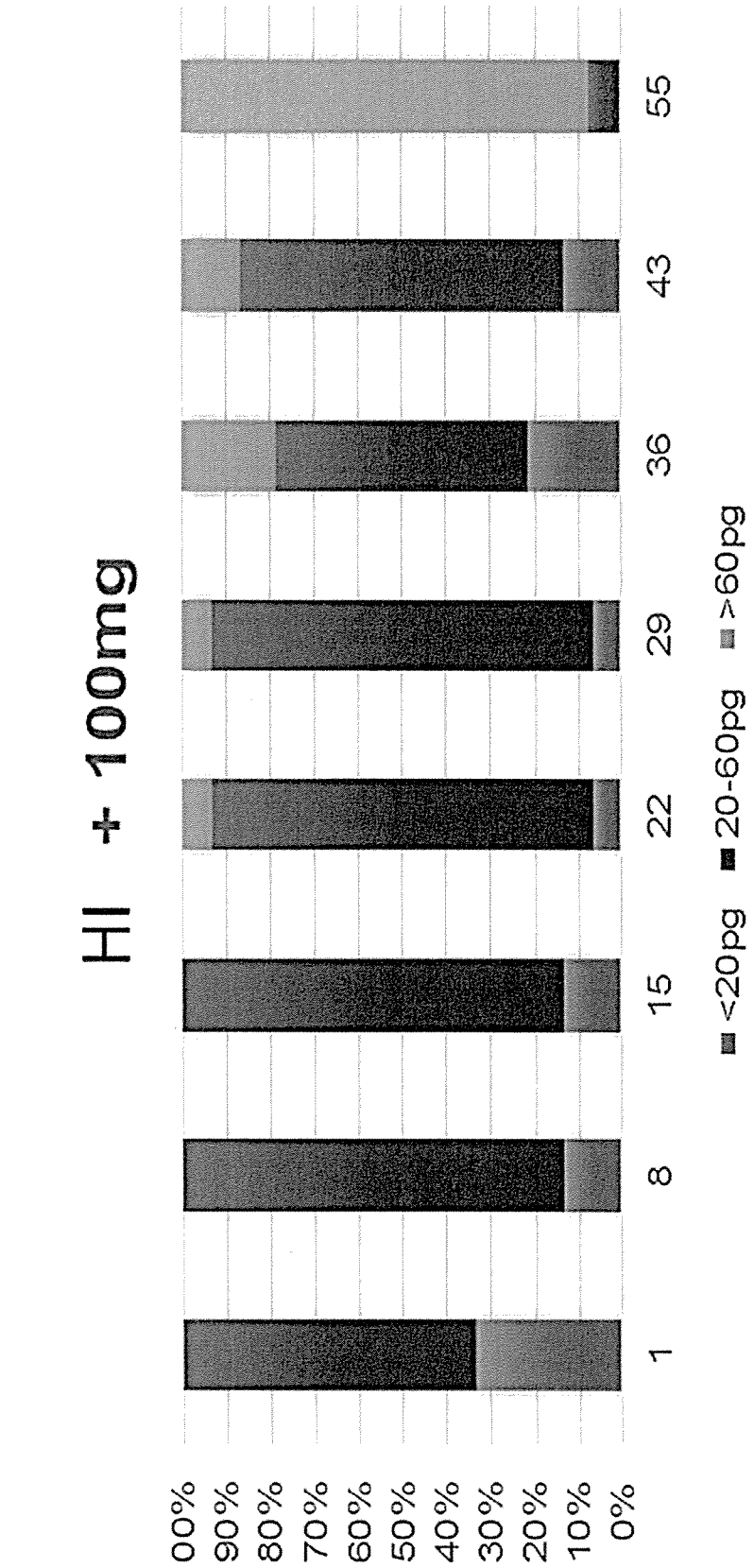

HI + 100mg
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
1
8
15
22
29
36
43
55
<20pg
20-60pg
>60pg

Fig. 10

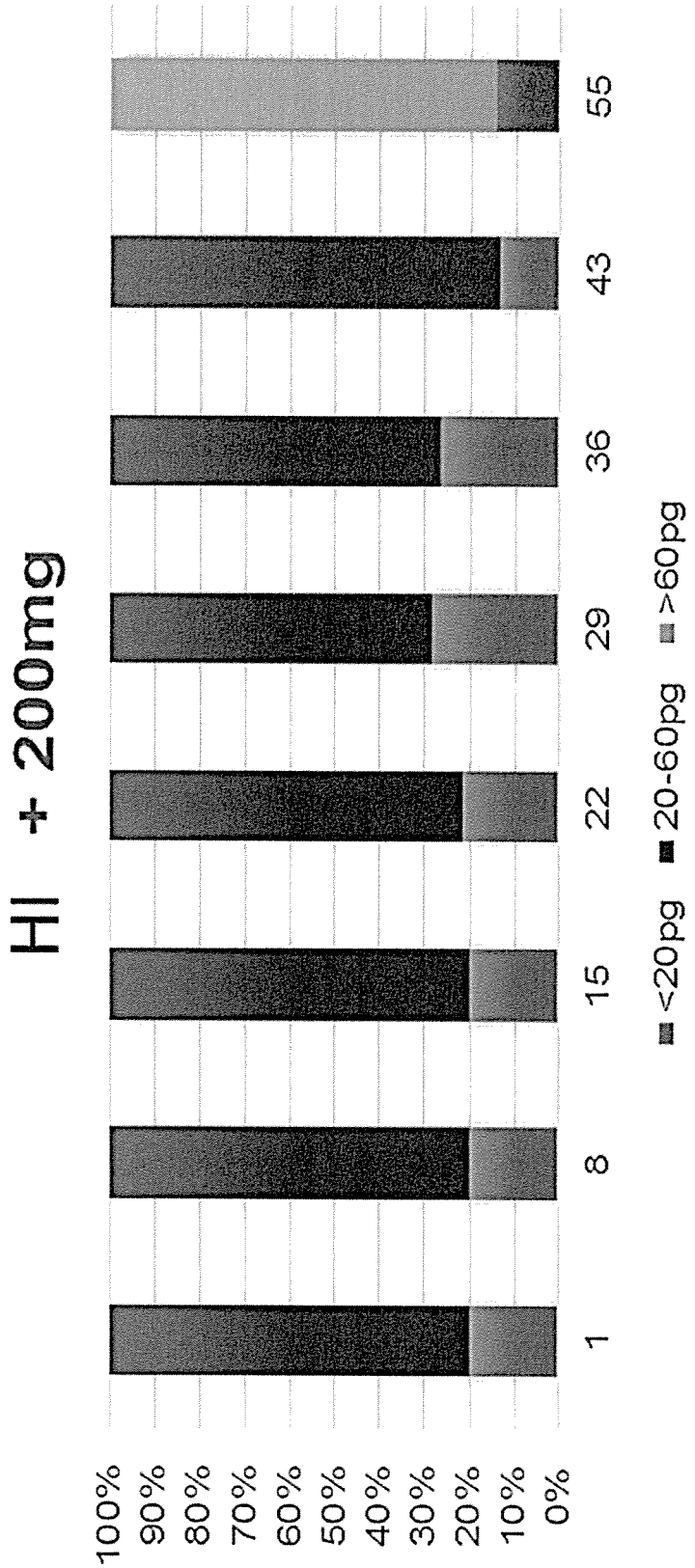

HI + 200mg
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
1
8
15
22
29
36
43
55
<20pg
20-60pg
>60pg

Fig. 11

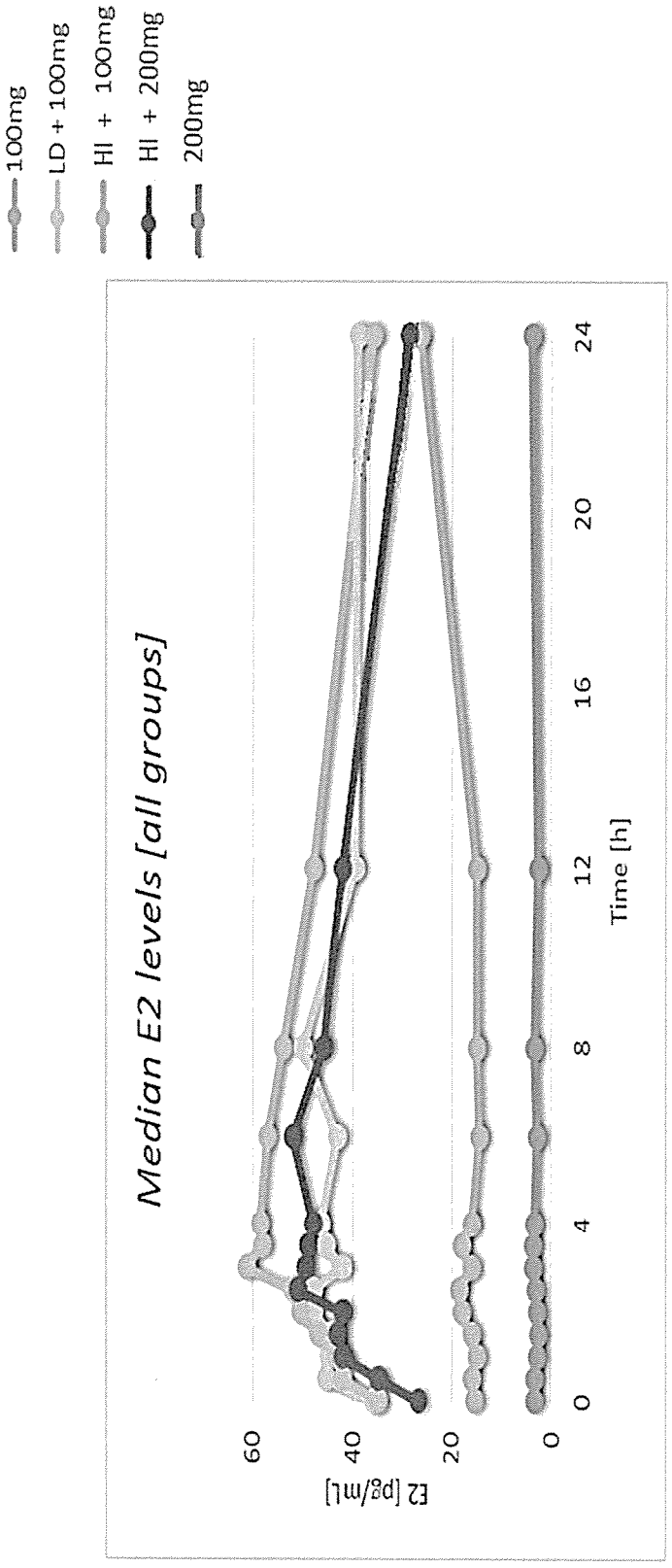
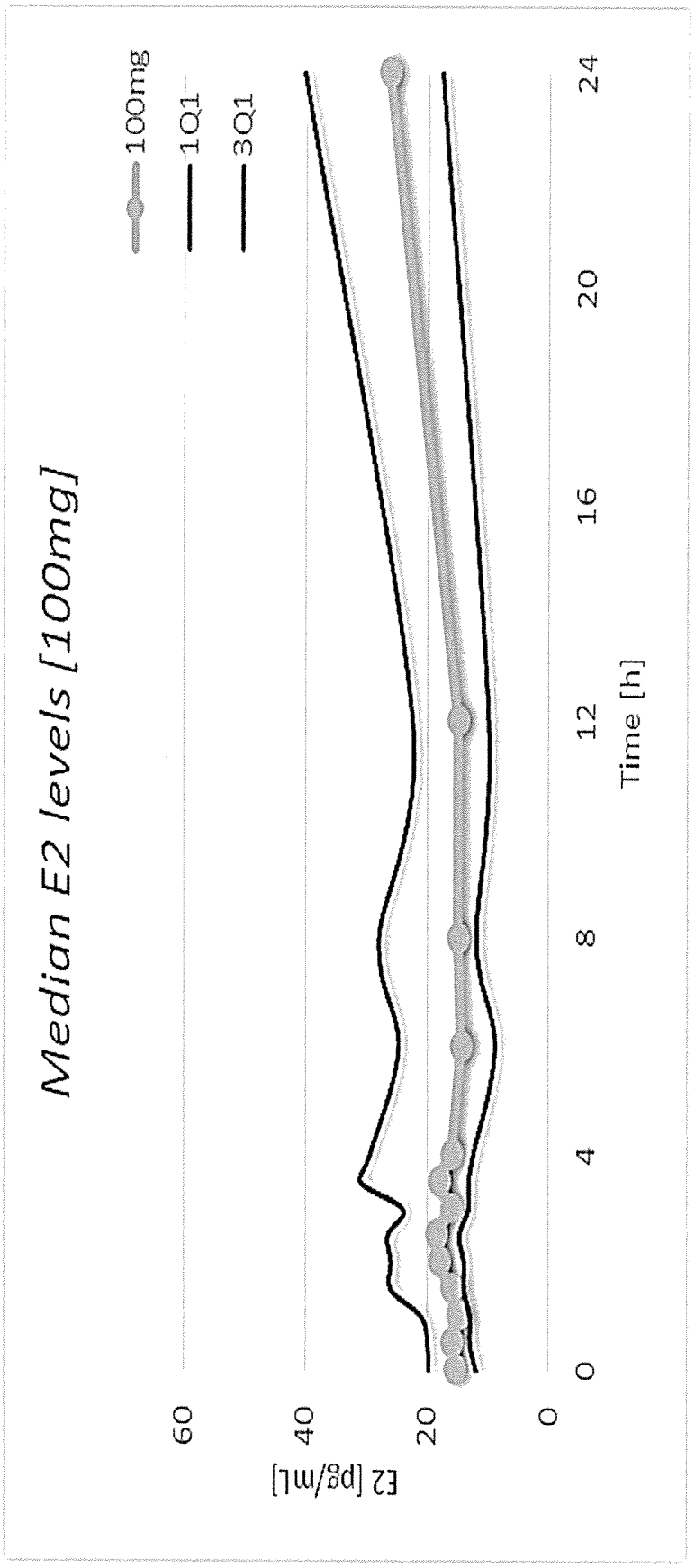

100mg
LD + 100mg
HI + 100mg
HI + 200mg
200mg
Median E2 levels [all groups]
E2 [pg/mL]
60
40
20
0
0
4
8
12
16
20
24
Time [h]

Fig. 12

Fig. 13


Median E2 levels [100mg]
100mg
1Q1
3Q1
E2 [pg/mL]
60
40
20
0
0
4
8
12
16
20
24
Time [h]

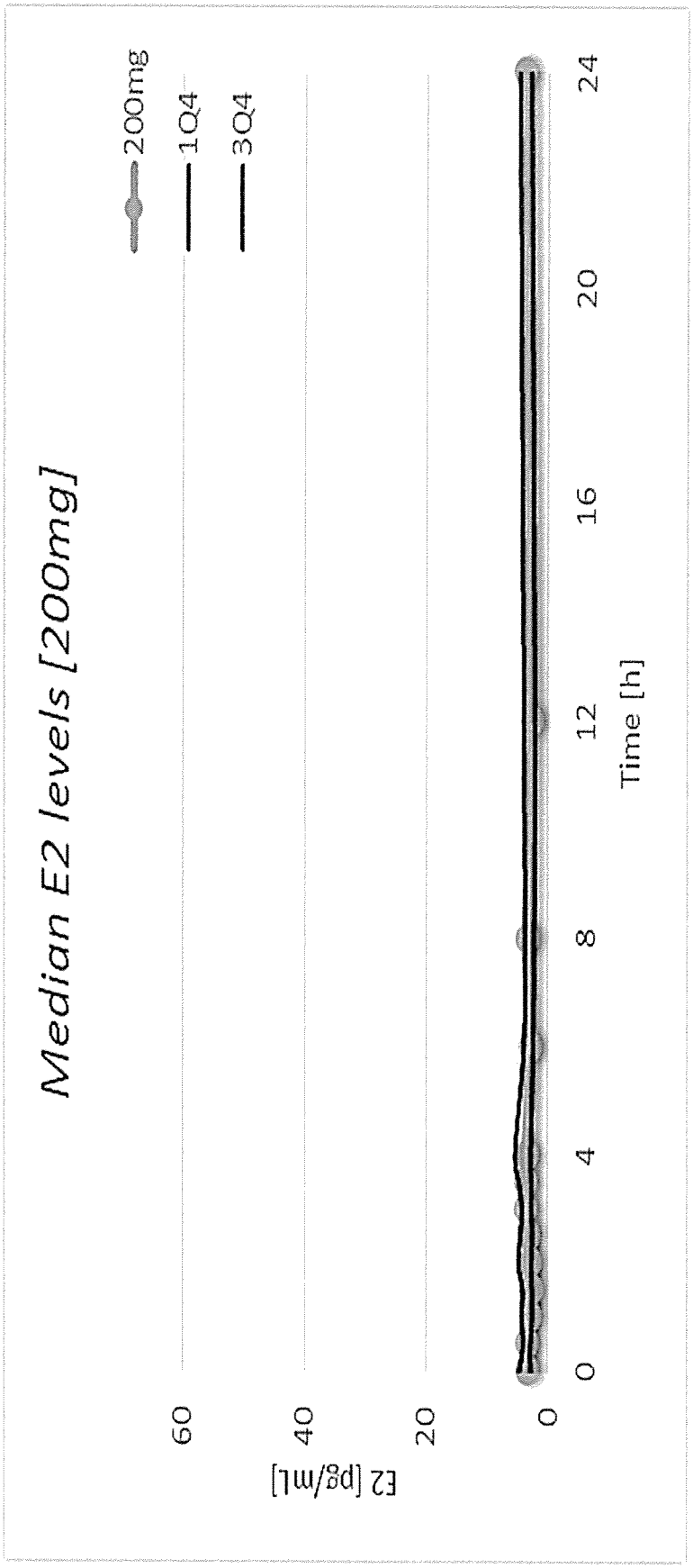

Median E2 levels [200mg]
200mg
1Q4
3Q4
E2 [pg/mL]
60
40
20
0
0
4
8
12
16
20
24
Time [h]

Fig. 14

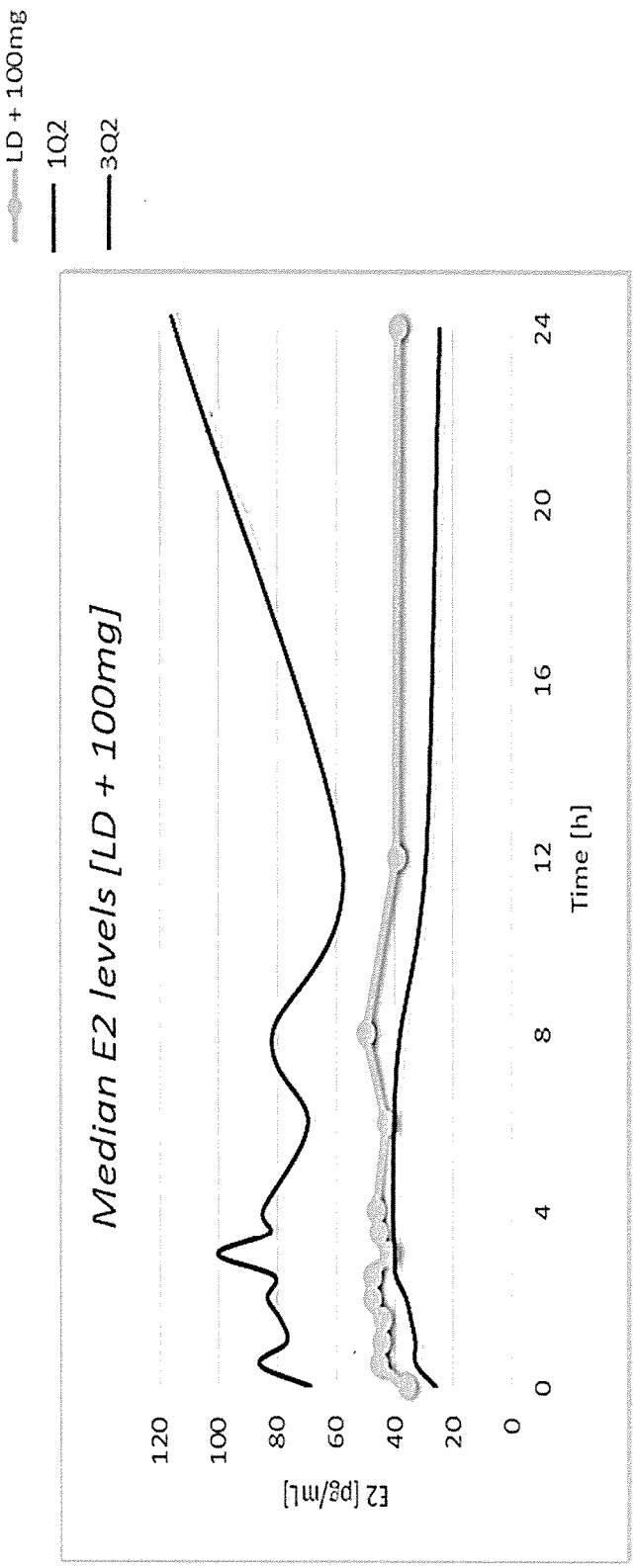

LD + 100mg
1Q2
3Q2
Median E2 levels [LD + 100mg]
E2 [pg/mL]
120
100
80
60
40
20
0
0
4
8
12
16
20
24
Time [h]

Fig. 15

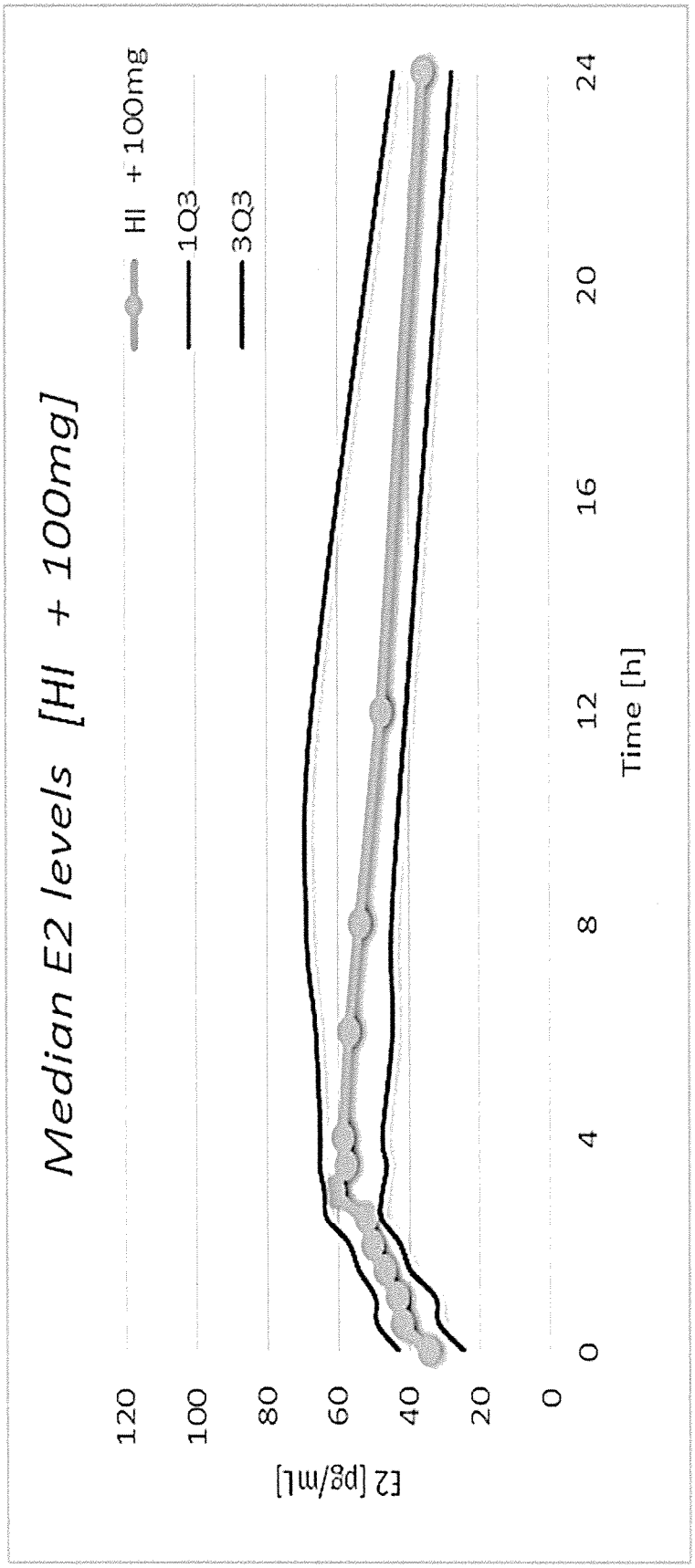

Median E2 levels [HI + 100mg]
HI + 100mg
1Q3
3Q3
E2 [pg/mL]
120
100
80
60
40
20
0
0
4
8
12
16
20
24
Time [h]

Fig. 16

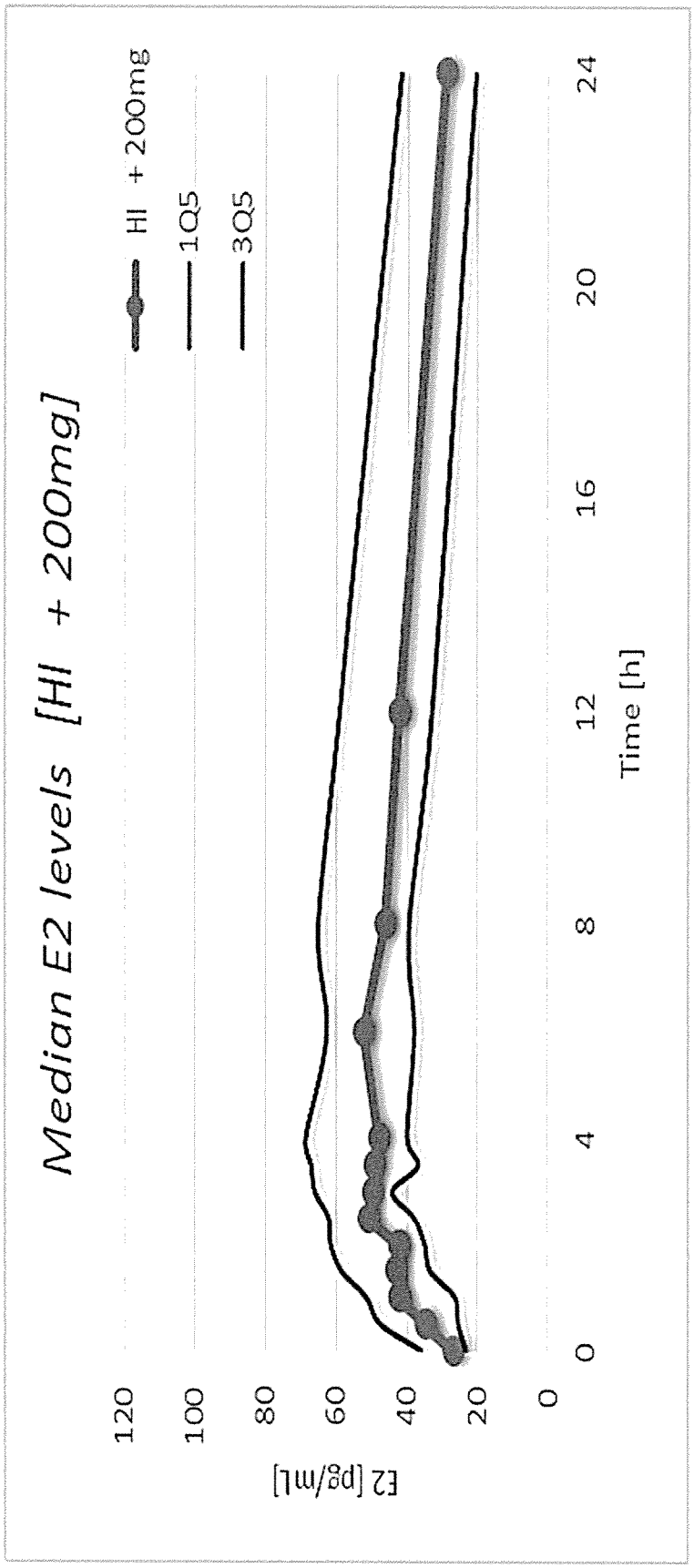

Median E2 levels [HI + 200mg]
HI + 200mg
1Q5
3Q5
E2 [pg/mL]
120
100
80
60
40
20
0
0
4
8
12
16
20
24
Time [h]

Fig. 17

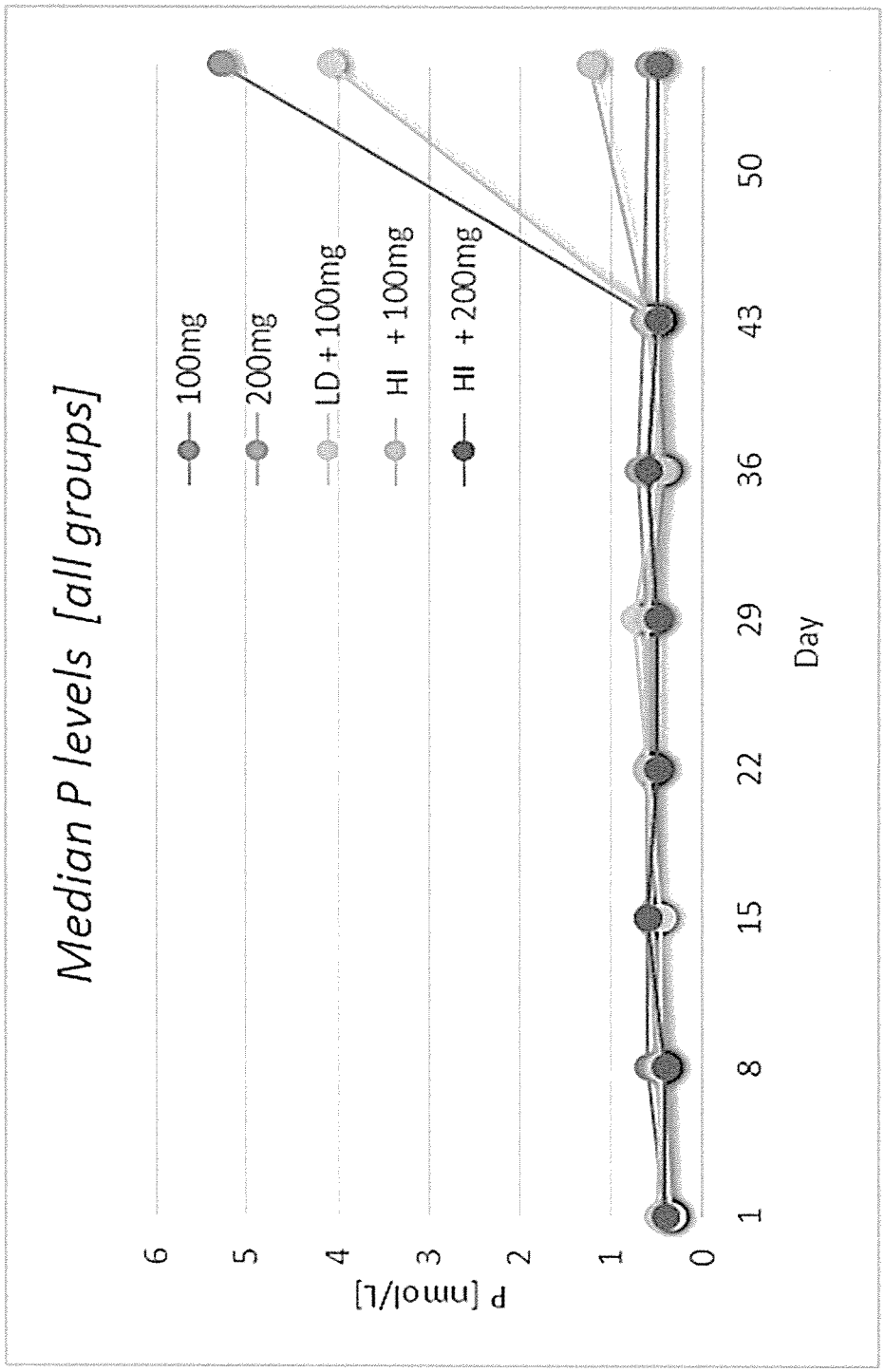

Median P levels [all groups]
100mg
200mg
LD + 100mg
HI + 100mg
HI + 200mg
P [mmol/L]
0
1
2
3
4
5
6
1
8
15
22
29
36
43
50
Day

Fig. 18

Fig. 19A

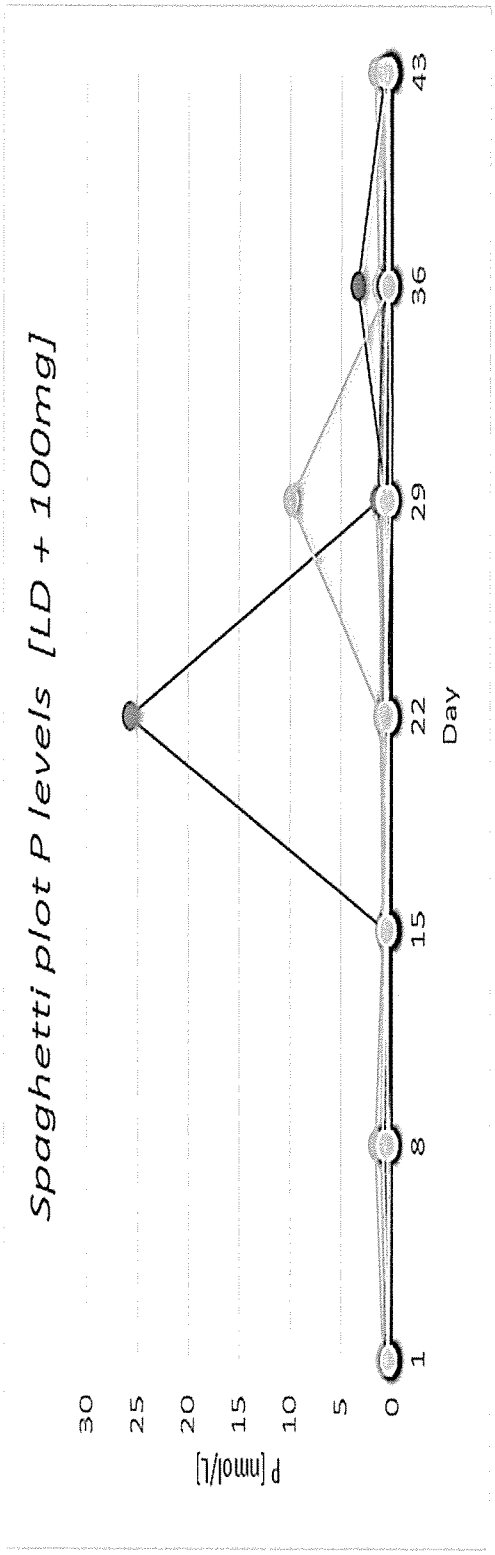


Fig. 19B

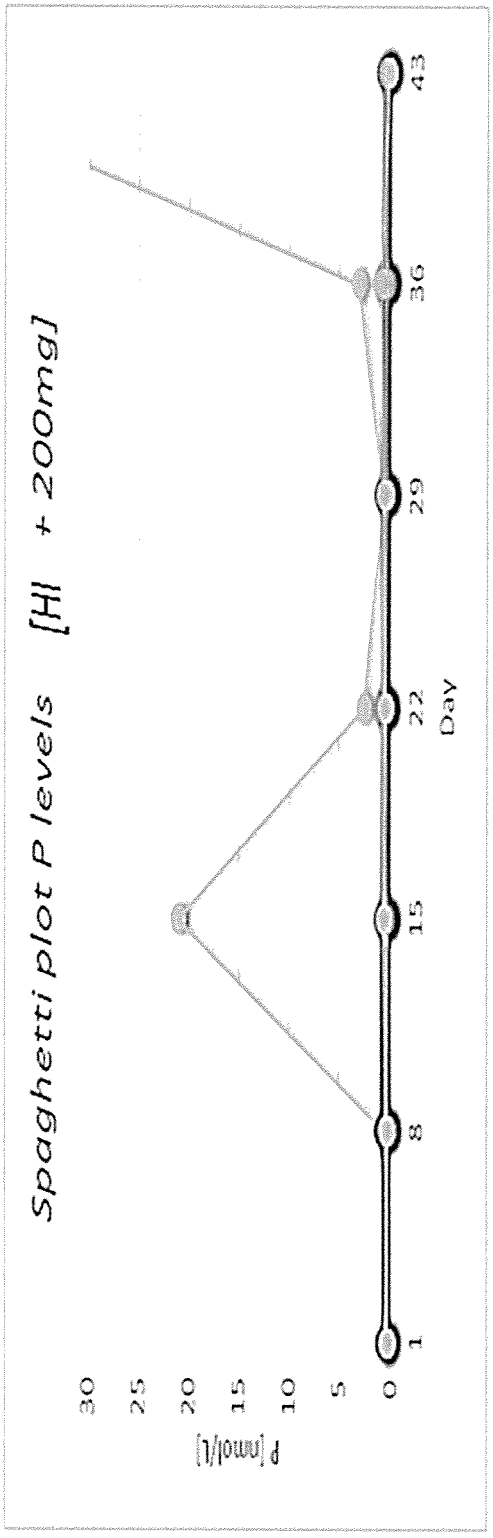
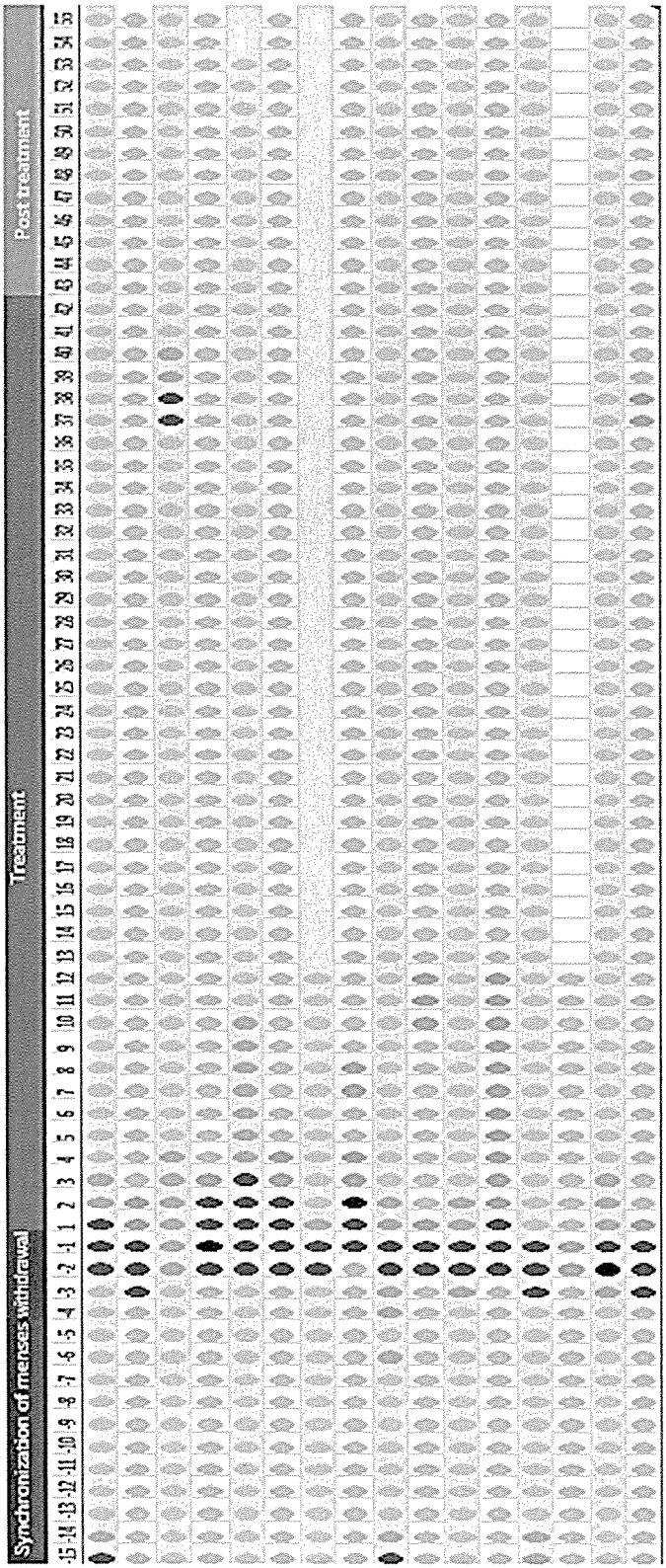


Fig. 20


Synchronization of menses withdrawal
Treatment
Post treatment
-15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55

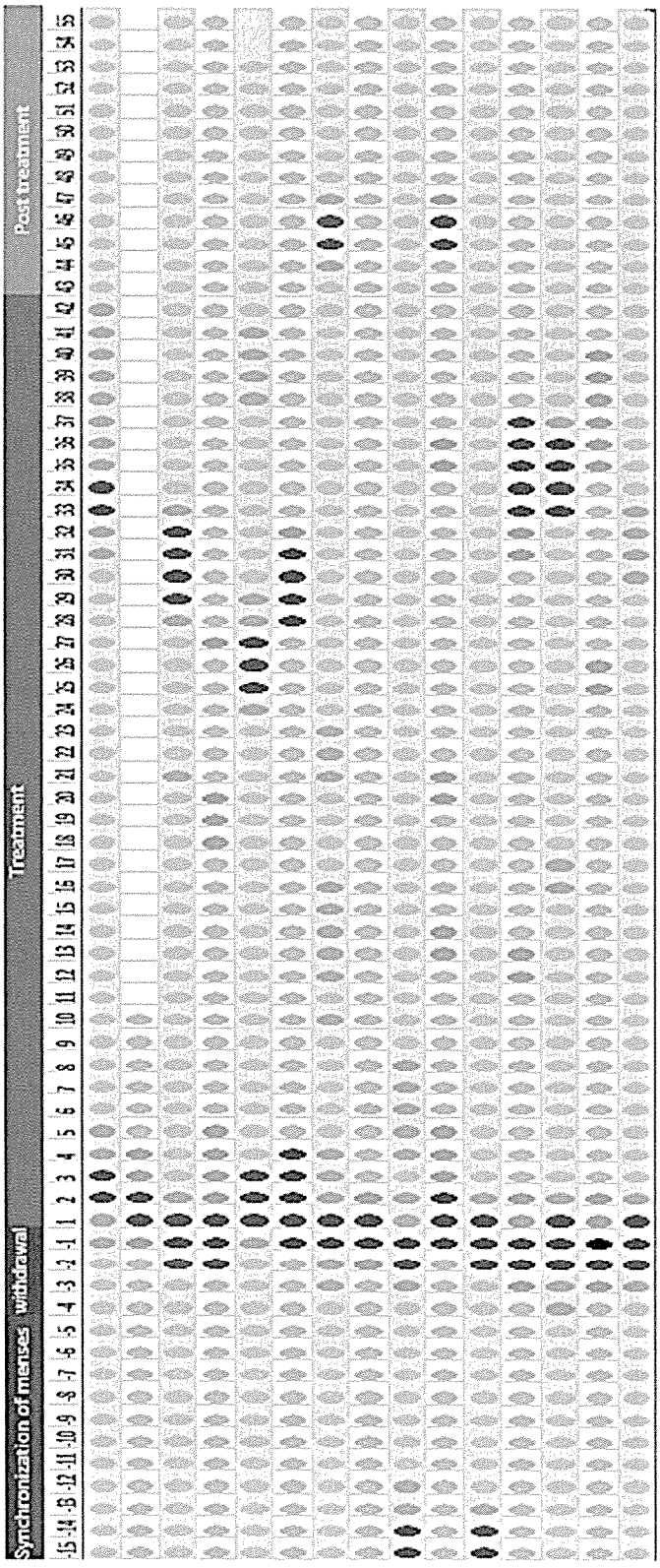

Synchronization of menses
withdrawal
Treatment
Post treatment

Fig. 21

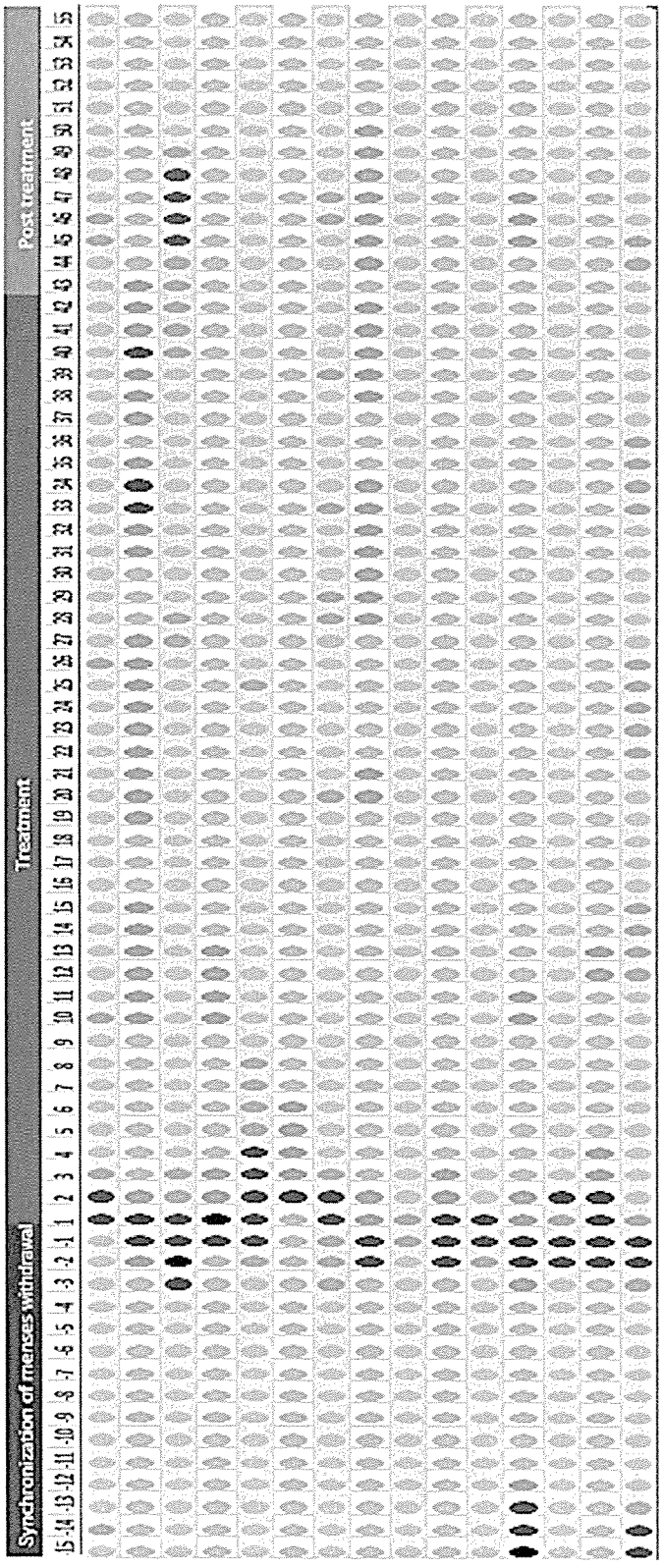

Synchronization of menses withdrawal
Treatment
Post treatment
-15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55

Fig. 22

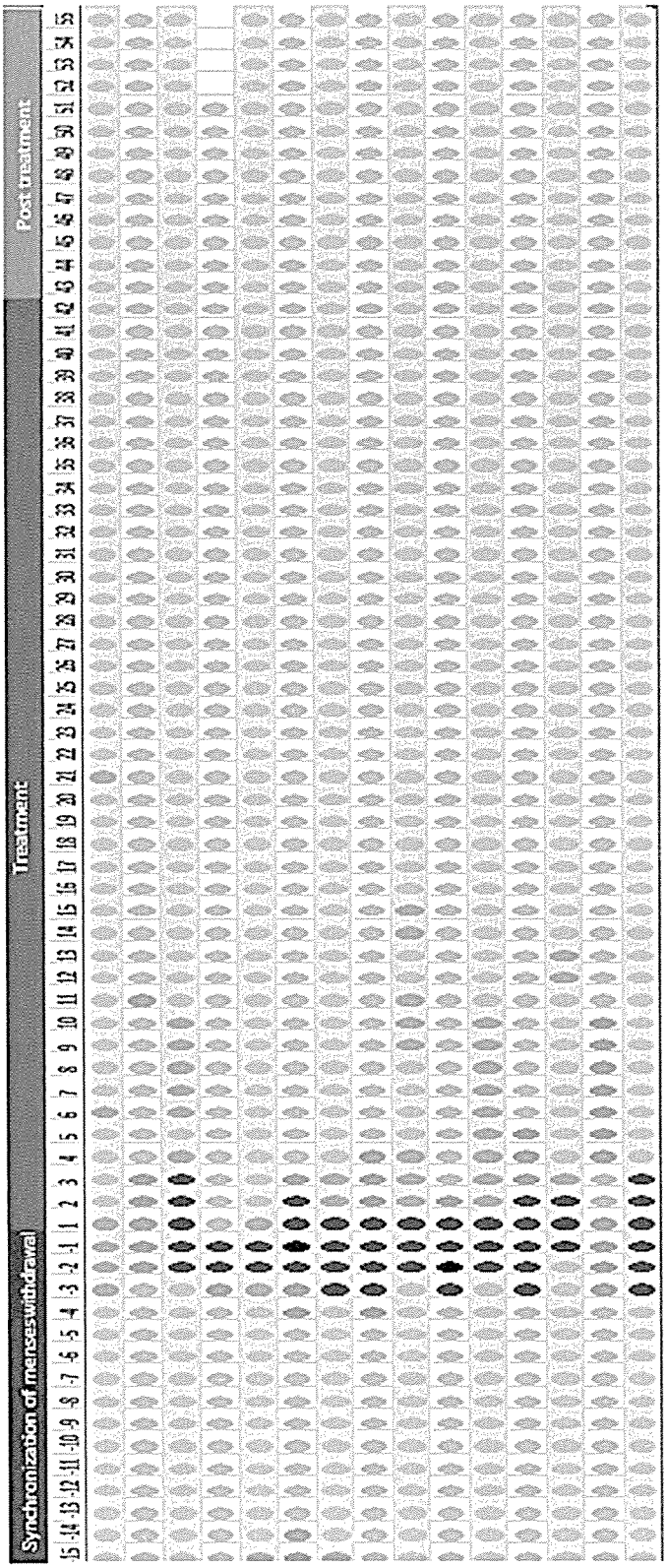

Synchronization of mares with drawal
Treatment
Post treatment

Fig. 23

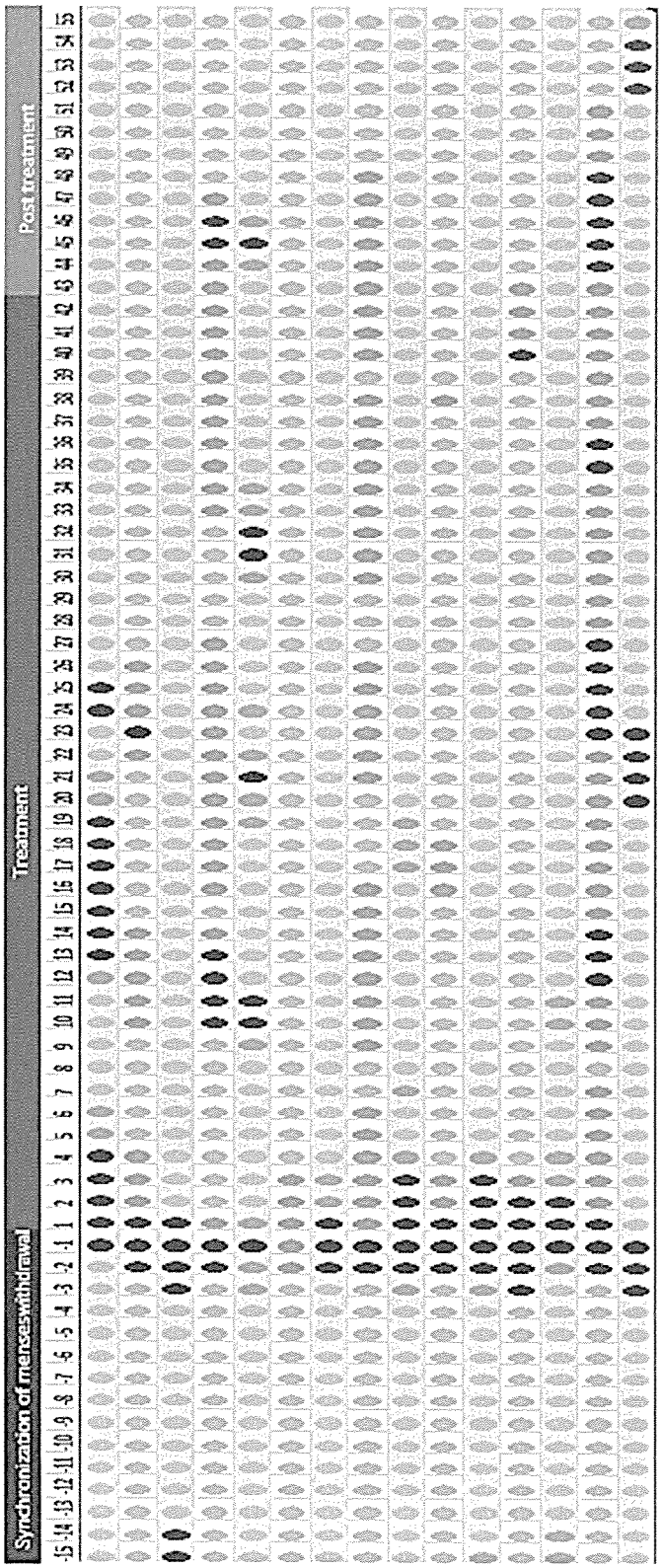

Synchronization of menses with withdrawal
Treatment
Post treatment
-15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55

Fig. 24

Fig. 25

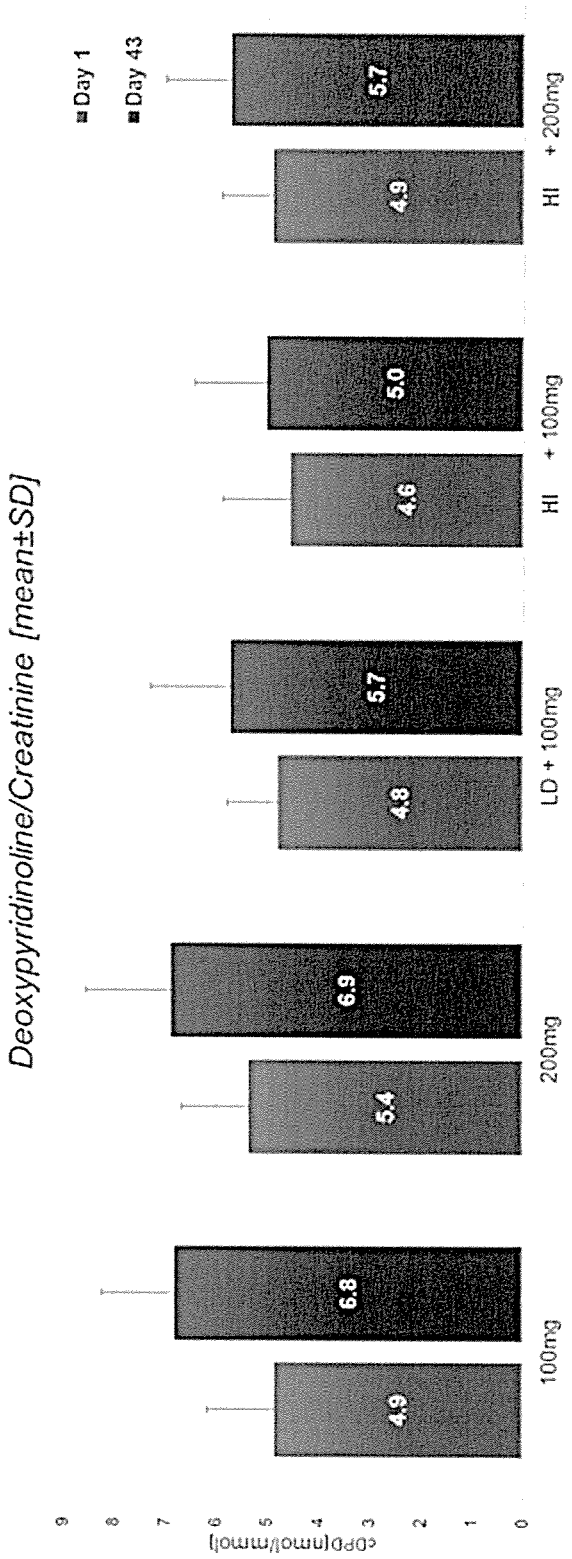
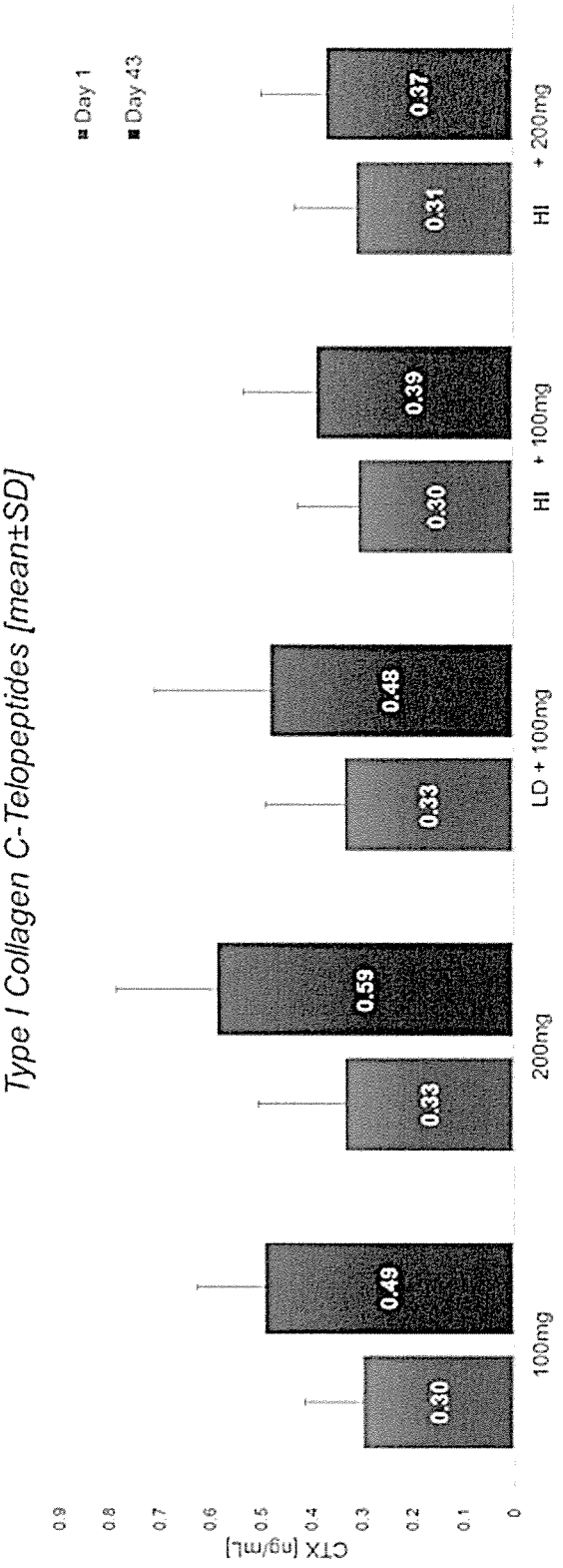

Deoxypyridinoline/Creatinine [mean±SD]
Day 1
Day 43
cDPD(nmol/mmol)
0
1
2
3
4
5
6
7
8
9
4.9
6.8
100mg
5.4
6.9
200mg
4.8
5.7
LD + 100mg
4.6
5.0
HI + 100mg
4.9
5.7
HI + 200mg

Fig. 26


Type I Collagen C-Telopeptides [mean±SD]
Day 1
Day 43
CTX [ng/mL]
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
0.30
0.49
0.33
0.59
0.33
0.48
0.30
0.39
0.31
0.37
100mg
200mg
LD + 100mg
HI + 100mg
HI + 200mg

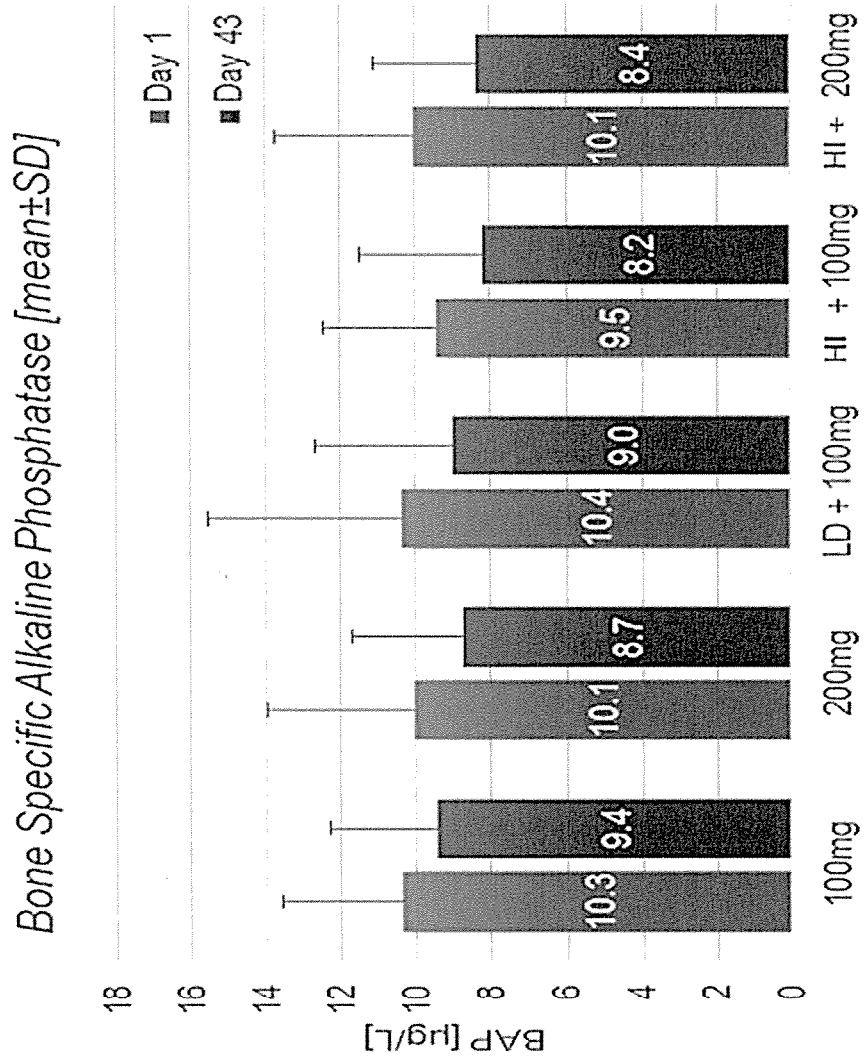

Bone Specific Alkaline Phosphatase [mean±SD]
Day 1
Day 43
BAP [µg/L]
0
2
4
6
8
10
12
14
16
18
10.3
9.4
10.1
8.7
10.4
9.0
9.5
8.2
10.1
8.4
100mg
200mg
LD + 100mg
HI + 100mg
HI + 200mg

Fig. 27

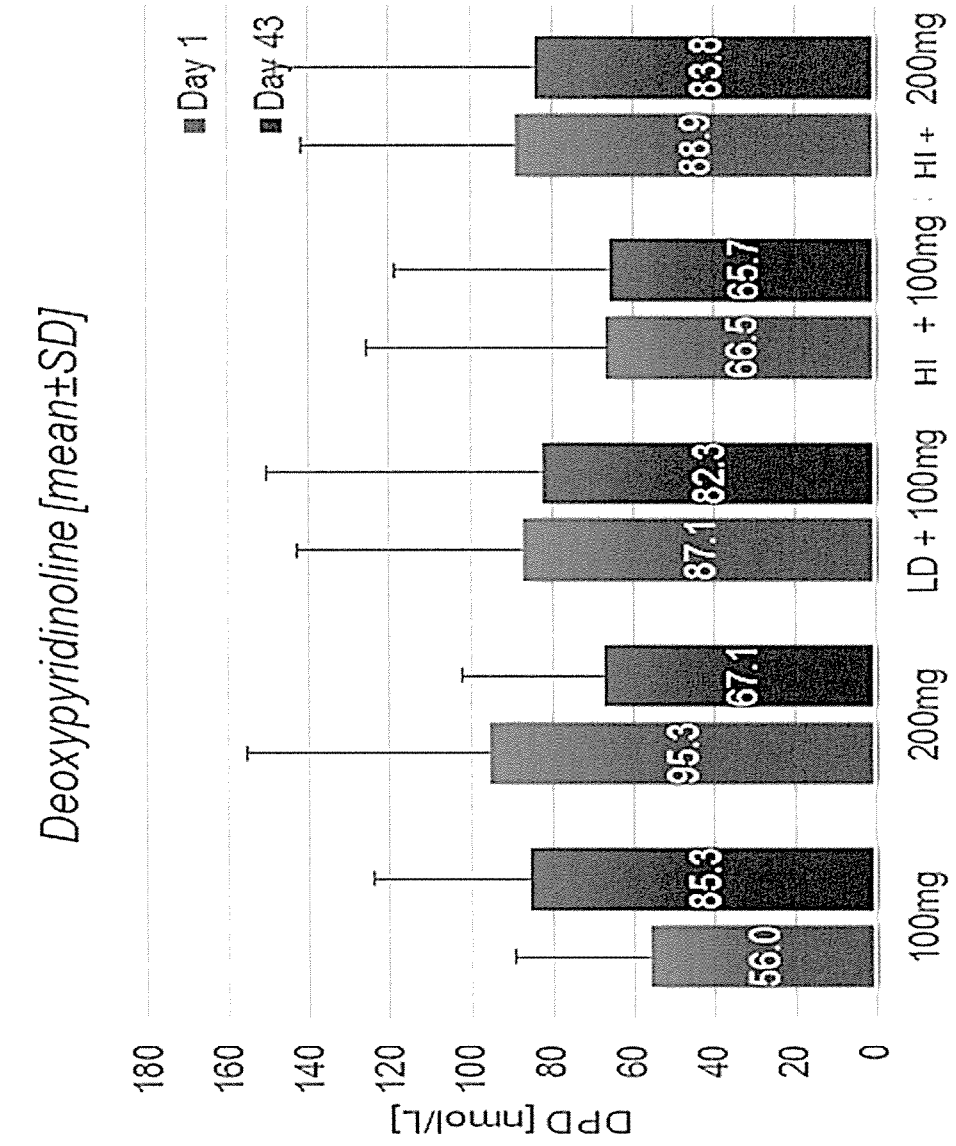

Deoxypyridinoline [mean±SD]
Day 1
Day 43
DPD [nmol/L]
0
20
40
60
80
100
120
140
160
180
56.0
85.3
95.3
67.1
87.1
82.3
66.5
65.7
88.9
83.8
100mg
200mg
LD + 100mg
HI + 100mg
HI + 200mg

Fig. 28

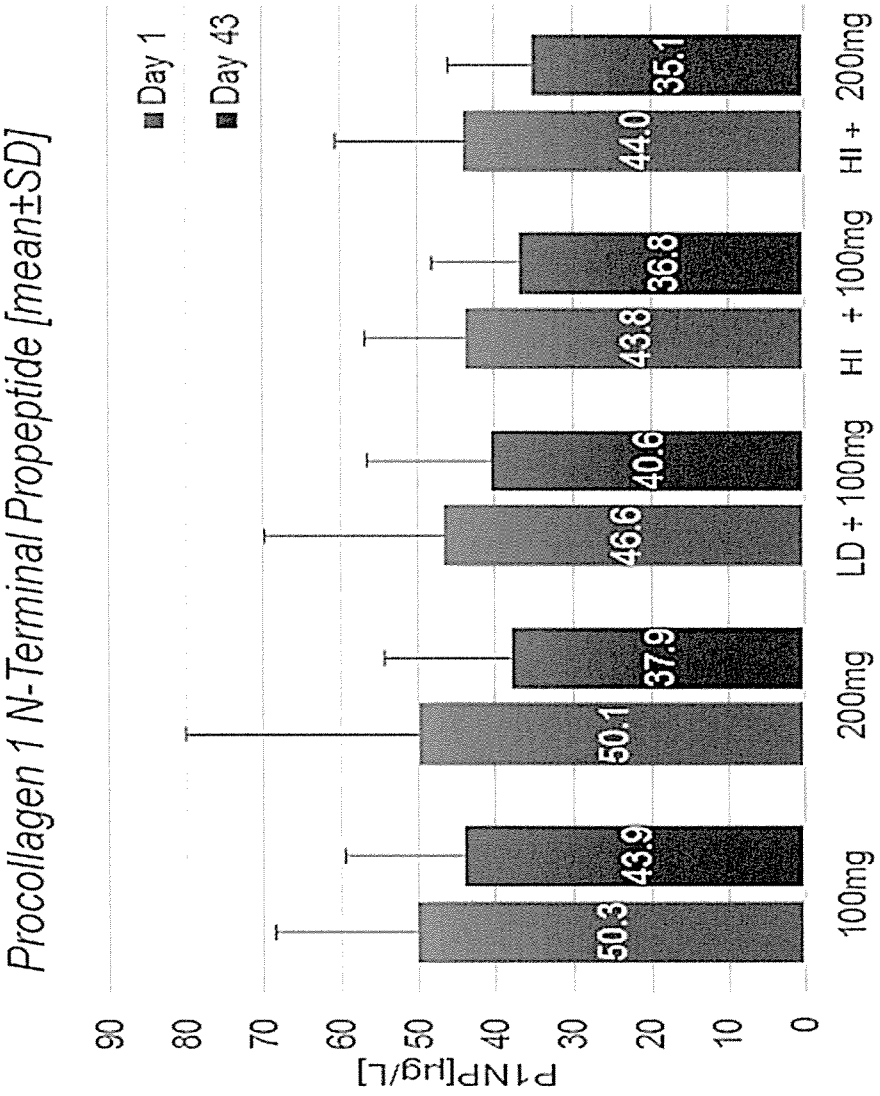

Procollagen 1 N-Terminal Propeptide [mean±SD]
Day 1
Day 43
P1NP[µg/L]
0
10
20
30
40
50
60
70
80
90
50.3
43.9
50.1
37.9
46.6
40.6
43.8
36.8
44.0
35.1
100mg
200mg
LD + 100mg
HI + 100mg
HI + 200mg

Fig. 29

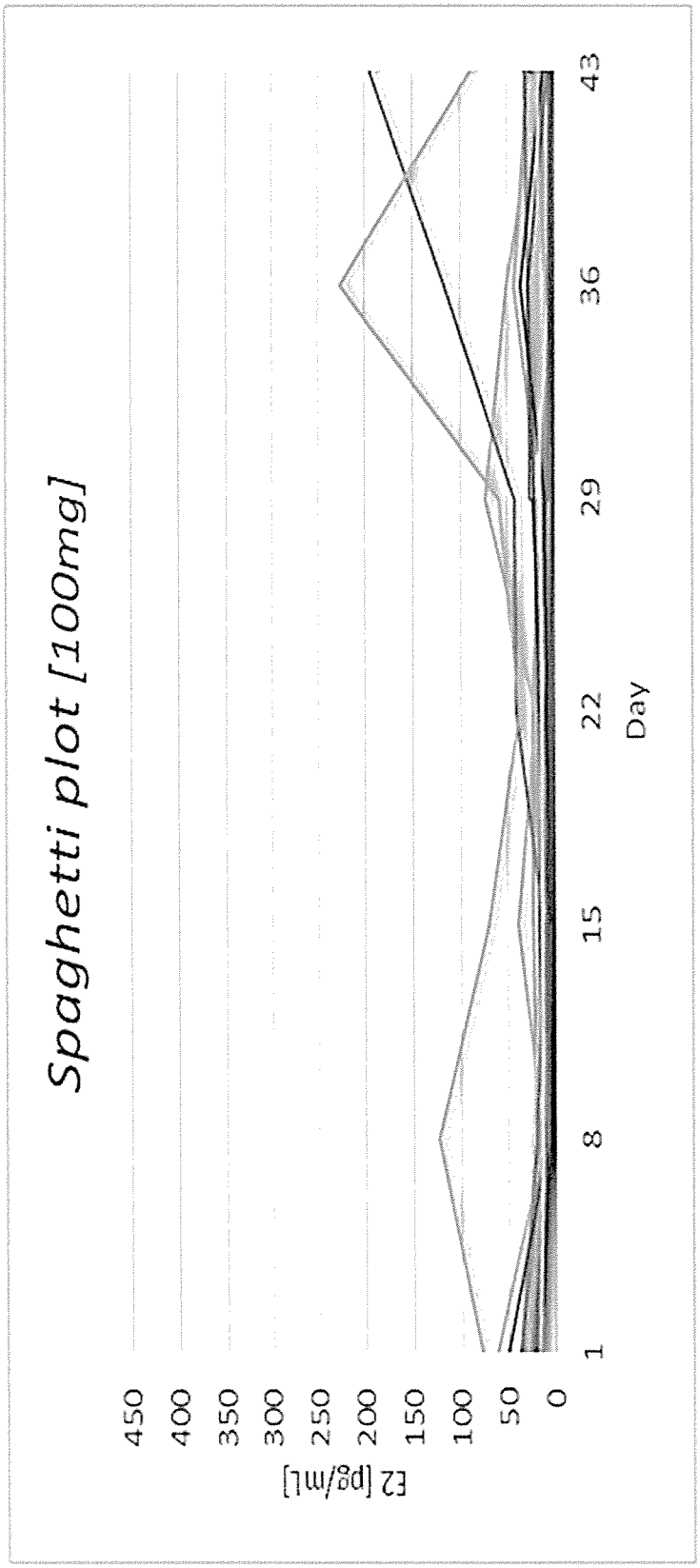

Spaghetti plot [100mg]
E2 [pg/mL]
450
400
350
300
250
200
150
100
50
0
1
8
15
22
29
36
43
Day

Fig. 30

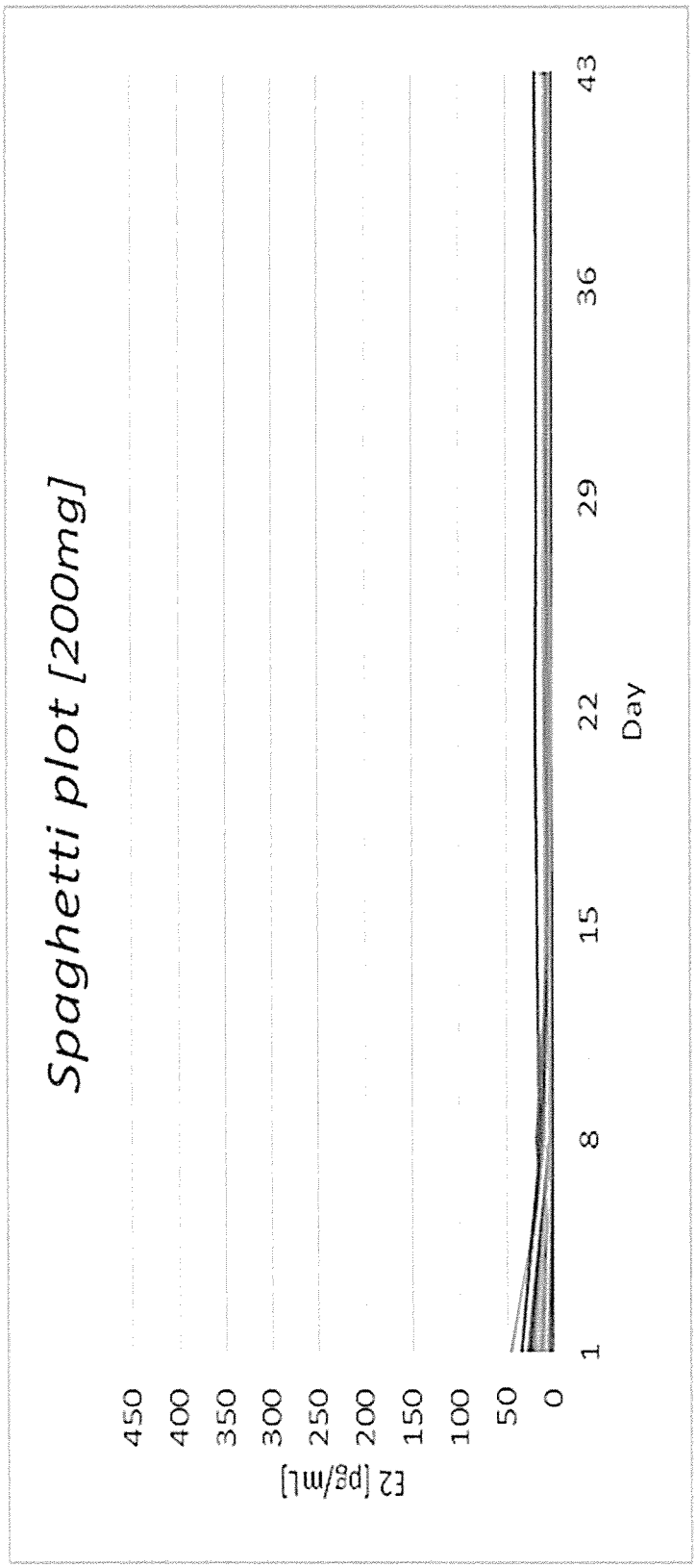

Spaghetti plot [200mg]
E2 [pg/mL]
450
400
350
300
250
200
150
100
50
0
1
8
15
22
29
36
43
Day

Fig. 31

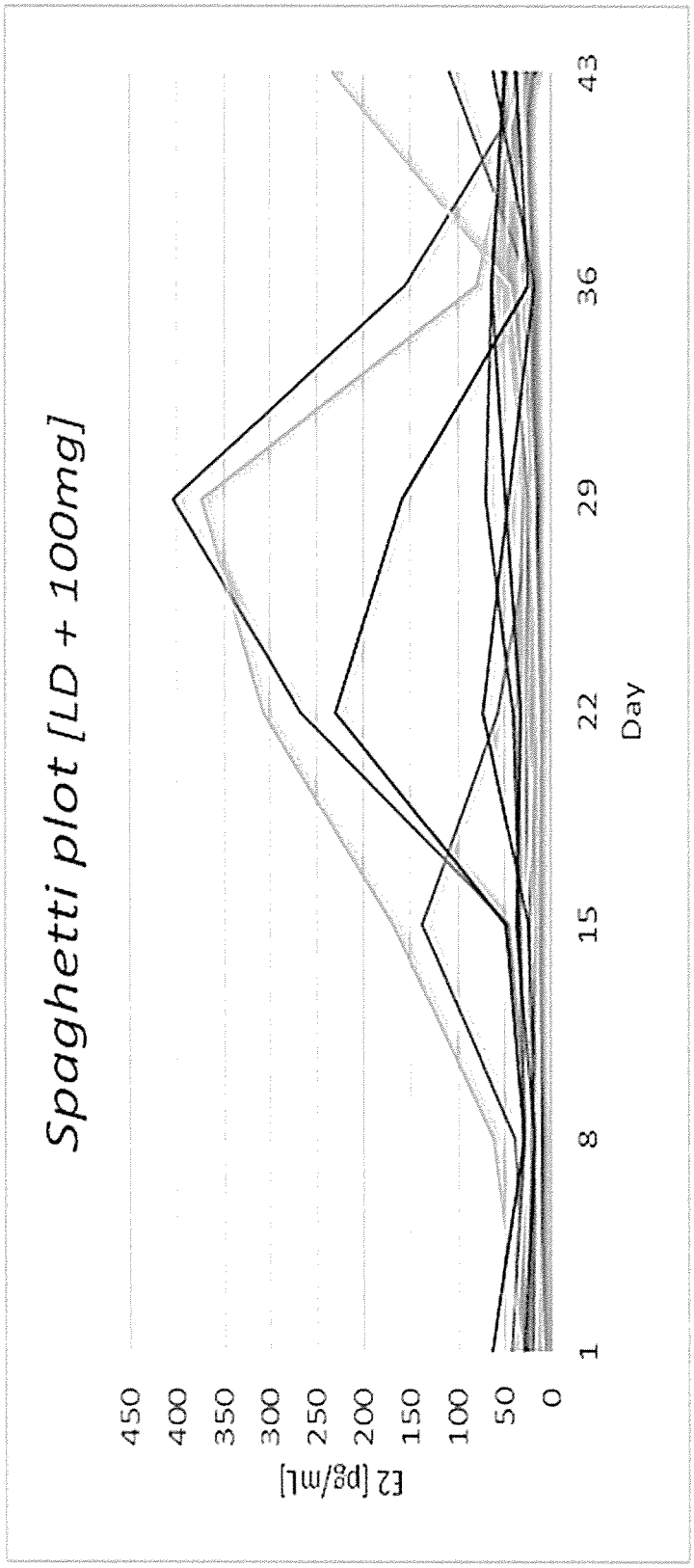

Spaghetti plot [LD + 100mg]
E2 [pg/mL]
450
400
350
300
250
200
150
100
50
0
1
8
15
22
29
36
43
Day

Fig. 32

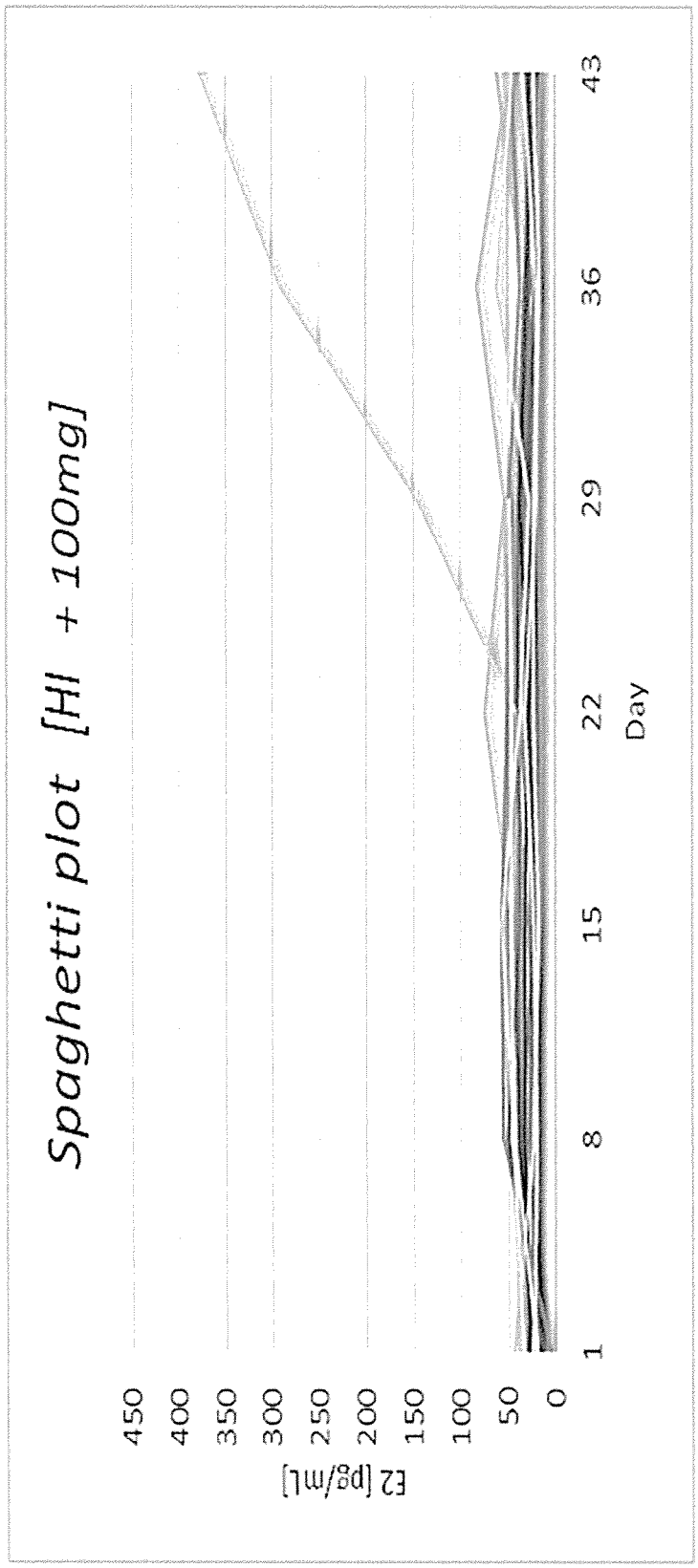

Spaghetti plot [HI + 100mg]
E2 [pg/mL]
450
400
350
300
250
200
150
100
50
0
1
8
15
22
29
36
43
Day

Fig. 33

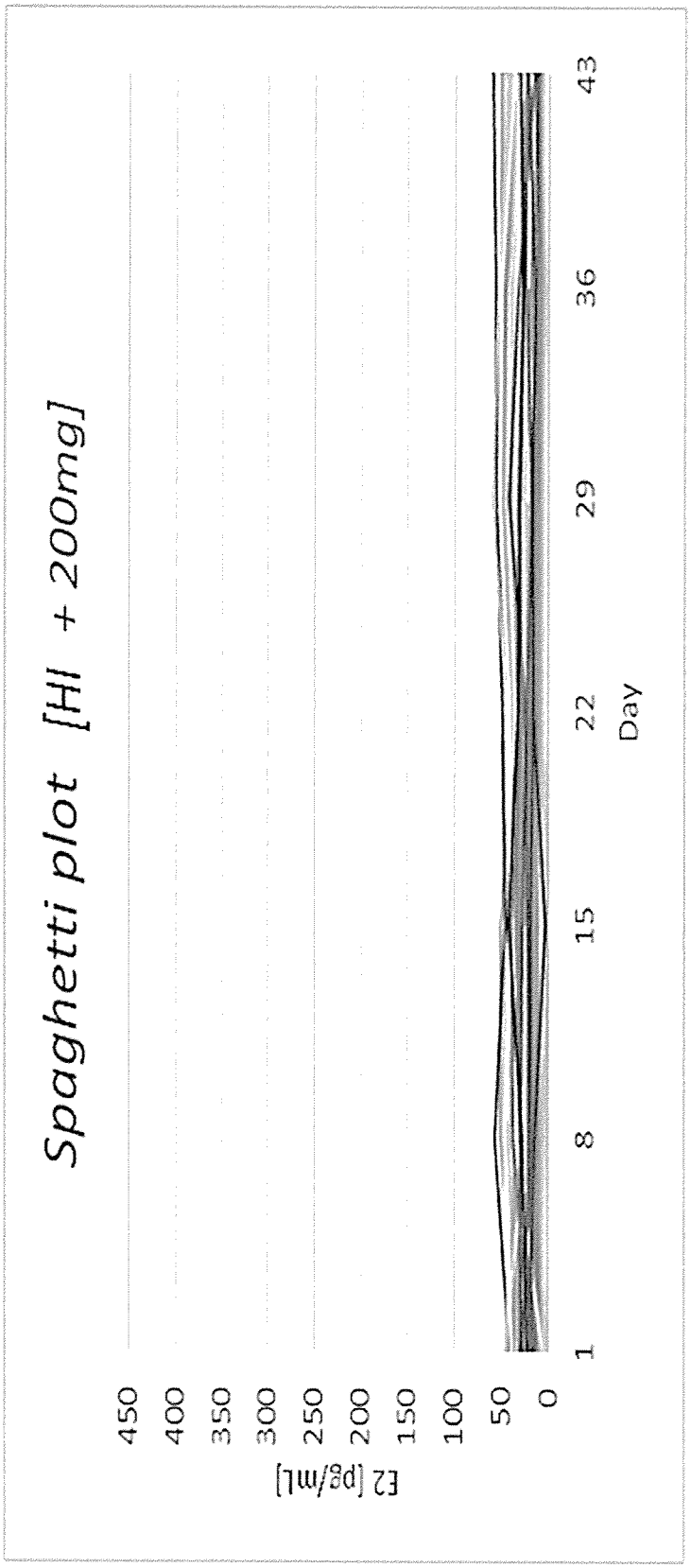

Spaghetti plot [HI + 200mg]
E2 [pg/mL]
450
400
350
300
250
200
150
100
50
0
1
8
15
22
29
36
43
Day

Fig. 34