## Supplement

Table 1-1. Finding a chromosome-normal blastocyst by the original ranking of embryos.

| Number <br> of <br> embryo | N | First | Median 1 | Last | First 1 \& 2 | Median 2 | Last $1 \& 2$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | 34 | $11 / 17(64.71)$ | $/$ | $7 / 17(41.18)$ | $/$ | $/$ | $/$ |
| 3 | 93 | $16 / 31(51.61)$ | $14 / 31(45.16)$ | $18 / 31(58.06)$ | $/$ | $/$ | $/$ |
| 4 | 104 | $11 / 26(42.31)$ | $26 / 52(50.00)$ | $10 / 26(38.46)$ | $21 / 52(40.38)$ | $/$ | $26 / 52(50.00)$ |
| 5 | 125 | $12 / 25(48.00)$ | $36 / 75(48.00)$ | $10 / 25(40.00)$ | $25 / 50(50.00)$ | $13 / 25(52.00)$ | $20 / 50(40.00)$ |
| 6 | 114 | $15 / 19(78.95)$ | $42 / 76(55.26)$ | $7 / 19(36.84)$ | $28 / 38(73.68)$ | $19 / 38(50.00)$ | $17 / 38(44.74)$ |
| 7 | 84 | $11 / 12(91.67)$ | $39 / 60(65.00)$ | $8 / 12(66.67)$ | $21 / 24(87.50)$ | $20 / 36(55.56)$ | $17 / 24(70.83)$ |
| 8 | 96 | $8 / 12(66.67)$ | $40 / 72(55.56)$ | $6 / 12(50.00)$ | $14 / 24(58.33)$ | $27 / 48(56.25)$ | $13 / 24(54.17)$ |
| 9 | 9 | $0 / 1(0)$ | $3 / 7(42.86)$ | $0 / 1(0)$ | $1 / 2(50.00)$ | $2 / 5(40.00)$ | $0 / 2(0)$ |
| 10 | 60 | $3 / 6(50.00)$ | $32 / 48(66.67)$ | $3 / 6(50.00)$ | $6 / 12(50.00)$ | $25 / 36(69.44)$ | $7 / 12(58.33)$ |
| 11 | 22 | $1 / 2(50.00)$ | $8 / 18(33.33)$ | $1 / 2(50.00)$ | $2 / 4(50.00)$ | $6 / 14(42.86)$ | $2 / 4(50.00)$ |
| 12 | 36 | $2 / 3(66.67)$ | $10 / 30(33.33)$ | $0 / 3(0)$ | $3 / 6(50.00)$ | $8 / 24(33.33)$ | $1 / 6(16.67)$ |
| 13 | 13 | $0 / 1(0.00)$ | $7 / 11(63.64)$ | $0 / 1(0)$ | $0 / 2(0.00)$ | $7 / 9(77.78)$ | $0 / 2(0)$ |
| Total | 790 | $90 / 155(58.06)^{*}$ | $227 / 480(47.29)$ | $70 / 155(45.16)^{*}$ | $121 / 204(59.31) \# 127 / 235(54.04)$ | $103 / 204(50.49) \#$ |  |

$* 58.06 \%$ vs. $45.16 \%, \mathrm{OR}=1.68(1.07-2.64) ; P=0.031$
$\# 59.31 \%$ vs. $50.49 \%, \mathrm{OR}=1.43(0.97-2.14) ; P=0.091$

Table 1-2. Finding a chromosome-normal blastocyst by the adjusted ranking of embryos.

| Number of embryo | N | First | Median 1 | Last | First 2 | Median 2 | Last 2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | 34 | 10/17 (58.82) |  | 8/17 (47.06) | 1 | / | / |
| 3 | 93 | 17/31 (54.84) | 13/31 (41.94) | 18/31 (58.06) | 1 | 1 | 1 |
| 4 | 104 | 12/26 (46.15) | 27/52 (51.92) | 8/26 (30.77) | 21/52 (40.38) | 1 | 26/52 (50.00) |
| 5 | 125 | 13/25 (52.00) | 35/75 (46.67) | 10/25 (40.00) | 25/50 (50.00) | 14/25 (56.00) | 19/50 (38.00) |
| 6 | 114 | 14/19 (73.68) | 42/76 (55.26) | 8/19 (42.11) | 26/38 (68.42) | 21/38 (55.26) | 17/38 (44.74) |
| 7 | 84 | 11/12 (91.67) | 39/60 (65.00) | 8/12 (66.67) | 20/24 (83.33) | 21/36 (58.33) | 17/24 (70.83) |
| 8 | 96 | 8/12 (66.67) | 40/72 (55.56) | 6/12 (50.00) | 15/24 (62.50) | 26/48 (54.17) | 13/24 (54.17) |
| 9 | 9 | 0/1 (0) | 3/7 (42.86) | 0/1 (0) | 0/2 (0) | 3/5 (60.00) | 0/2 (0) |
| 10 | 60 | 3/6 (50.00) | 32/48 (66.67) | 3/6 (50.00) | 6/12 (50.00) | 25/36 (69.44) | 7/12 (58.33) |
| 11 | 22 | 1/2 (50.00) | 8/18 (44.44) | 1/2 (50.00) | 1/4 (25.00) | 7/14 (50.00) | 2/4 (50.00) |
| 12 | 36 | 2/3 (66.67) | 10/30 (33.33) | 0/3 (0) | 3/6 (50.00) | 8/24 (33.33) | 1/6 (16.67) |
| 13 | 13 | 0/1 (0) | 7/11 (63.64) | 0/1 (0) | 0/2 (0) | 7/9 (77.78) | 0/2 (0) |
| Total | 790 | 91/155 (58.71)* | 246/480 (51.25) | 70/155 (45.16)* | 117/204 (57.35)\# | 132/235 (56.17) | 102/204 (50.00)\# |
| $\begin{aligned} & * 58.71 \% \text { vs. } 45.16 \%, \mathrm{OR}=1.73(1.10-2.71) ; P=0.023 \\ & \# 57.35 \% \text { vs. } 50.00 \%, \mathrm{OR}=1.35(0.91-1.99) ; P=0.164 \end{aligned}$ |  |  |  |  |  |  |  |

Table 1-3. Finding a chromosome-normal blastocyst by the ranking of 12 h embryos.

| Number of embryo | N | First | Median 1 | Last | First 2 | Median 2 | Last 2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | 34 | 11/17 (64.71) |  | 7/17 (41.18) | 1 | 1 | 1 |
| 3 | 93 | 19/31 (61.29) | 14/31 (45.16) | 15/31 (48.39) | 1 | 1 | 1 |
| 4 | 104 | 13/26 (50.00) | 26/52 (50.00) | 8/26 (30.77) | 26/52 (50.00) | 1 | 21/52 (40.38) |
| 5 | 125 | 15/25 (60.00) | 34/75 (45.33) | 9/25 (36.00) | 27/50 (54.00) | 12/25 (48.00) | 19/50 (38.00) |
| 6 | 114 | 14/19 (73.68) | 42/76 (55.26) | 8/19 (42.11) | 25/38 (65.79) | 20/38 (52.63) | 19/38 (50.00) |
| 7 | 84 | 12/12 (100.00) | 39/60 (65.00) | 7/12 (58.33) | 22/24 (91.67) | 20/36 (55.56) | 16/24 (66.67) |
| 8 | 96 | 9/12 (75.00) | 35/72 (48.61) | 10/12 (83.33) | 14/24 (58.33) | 27/48 (56.25) | 13/24 (54.17) |
| 9 | 9 | 1/1 (100.00) | 2/7 (28.57) | 0/1 (0) | 1/2 (50.00) | $2 / 5$ (40.00) | 0/2 (0) |
| 10 | 60 | 4/6 (66.67) | 32/48 (66.67) | 2/6 (33.33) | 10/12 (83.33) | 22/36 (61.11) | 6/12 (50.00) |
| 11 | 22 | 0/2 (0) | 9/18 (50.00) | 1/2 (50.00) | 2/4 (50.00) | 5/14 (35.71) | 3/4 (75.00) |
| 12 | 36 | 2/3 (66.67) | 10/30 (33.33) | 0/3 (0) | 3/6 (50.00) | 9/24 (37.50) | 0/6 (0) |
| 13 | 13 | 0/1 (0) | 7/11 (63.64) | 0/1 (0) | 0/2 (0) | 7/9 (77.78) | 0/2 (0) |
| Total | 790 | 100/155 (64.52)* | 250/480 (52.08) | 67/155 (43.23)* | 130/204 (63.73)\# | 24/235 (52.77) | 7/204 (47.55)\# |

* $64.52 \%$ vs. $43.23 \%, \mathrm{OR}=2.39(1.51-3.77) ; P<0.001$
$\# 63.73 \%$ vs. $47.55 \%, \mathrm{OR}=1.94$ (1.30-2.88); $P=0.001$

Table 1-4. Finding a chromosome-normal blastocyst by the ranking of 14 h embryos.

| Number of embryo | N | First | Median 1 | Last | First 2 | Median 2 | Last 2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | 34 | 11/17 (64.71) |  | 7/17 (41.18) | / | 1 | / |
| 3 | 93 | 21/31 (67.74) | 11/31 (35.48) | 16/31 (51.61) | 1 | 1 | 1 |
| 4 | 104 | 13/26 (50.00) | 25/52 (48.08) | 9/26 (34.62) | 26/52 (50.00) | 1 | 21/52 (40.38) |
| 5 | 125 | 13/25 (52.00) | 36/75 (48.00) | 9/25 (36.00) | 26/50 (52.00) | 11/25 (44.00) | 21/50 (42.00) |
| 6 | 114 | 17/19 (89.47) | 39/76 (51.32) | 8/19 (42.11) | 28/38 (73.68) | 17/38 (44.74) | 19/38 (50.00) |
| 7 | 84 | 11/12 (91.67) | 40/60 (66.67) | 7/12 (58.33) | 21/24 (87.50) | 23/36 (63.89) | 14/24 (58.33) |
| 8 | 96 | 9/12 (75.00) | 38/72 (52.78) | 7/12 (58.33) | 14/24 (58.33) | 26/48 (54.17) | 14/24 (58.33) |
| 9 | 9 | 1/1 (100.00) | 2/7 (28.57) | 0/1 (0) | 1/2 (50.00) | $2 / 5$ (40.00) | 0/2 (0) |
| 10 | 60 | 5/6 (83.33) | 31/48 (64.58) | 2/6 (33.33) | 9/12 (75.00) | 24/36 (66.67) | 5/12 (41.67) |
| 11 | 22 | 0/2 (0) | 9/18 (50.00) | 1/2 (50.00) | 2/4 (50.00) | 6/14 (42.86) | 2/4 (50.00) |
| 12 | 36 | 2/3 (66.67) | 10/30 (33.33) | 0/3 (0) | 3/6 (50.00) | 8/24 (33.33) | 1/6 (16.67) |
| 13 | 13 | 0/1 (0) | 7/11 (63.64) | 0/1 (0) | 1/2 (50.00) | 5/9 (55.56) | 1/2 (50.00) |
| Total | 790 | 103/155 (66.45)* | 248/480 (51.67) | 66/155 (42.58)* | 131/204 (64.22)\# | 122/235 (51.91) | 98/204 (48.04)\# |
| $\begin{aligned} & * 66.45 \% \text { vs. } 42.58 \%, \mathrm{OR}=2.61(1.68-4.24) ; P<0.001 \\ & \# 64.22 \% \text { vs. } 48.04 \%, \mathrm{OR}=1.94(1.31-2.89) ; P=0.001 \end{aligned}$ |  |  |  |  |  |  |  |

Table 2. PGT results and female PN 14 h coefficient $\beta 1$ ranking.

| PGT result | First 1 | First 2 | Median | Last 2 | Last 1 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Chromosomal-normal |  |  |  |  |  |
| and mosaic | $103 / 155(66.45 \%)^{*}$ | $60 / 107(56.07 \%)$ | $133 / 266(50 \%)$ | $55 / 107(51.4 \%)$ | $66 / 155(42.58 \%)^{*}$ |
| Euploid with errors | $22 / 155(14.19 \%) \#$ | $26 / 107(24.3 \%)$ | $63 / 266(23.68 \%)$ | $30 / 107(28.04 \%)$ | $45 / 155(29.03 \%) \#$ |
| Aneuploid with errors | $30 / 155(19.35 \%)$ | $21 / 107(19.63 \%)$ | $70 / 266(26.32 \%)$ | $22 / 107(20.56 \%)$ | $44 / 155(28.39 \%)$ | * $66.45 \%$ vs. $42.58 \%, \mathrm{OR}=2.67(1.68-4.24), P<0.001 ;$ $\# 14.19 \%$ vs. $29.03 \%, \mathrm{OR}=0.40(0.23-0.71), P=0.002$

Table 3. PGT results (errors stratification) and female PN 14 h coefficient $\beta 1$ ranking.

| PGT result | First 1 | First 2 | Median | Last 2 | Last 1 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Chromosome-normal | 72/155 (46.45\%)* | 43/107 (40.19\%) | 100/266 (37.59\%) | 43/107 (40.19\%) | 44/155 (28.39\%)* |
| Sole mosaic | 31/155 (20.00\%) | 17/107 (15.89\%) | 33/266 (12.41\%) | 12/107 (11.21\%) | 22/155 (14.19\%) |
| Sole deletion and/or duplication | 15/155 (9.68\%)\# | 17/107 (15.89\%) | 41/266 (15.41\%) | 19/107 (17.76\%) | 31/155 (20.00\%)\# |
| Sole deletion and/or duplication euploidy embryos with mosaic forms | 9/155 (5.81\%) | 12/107 (11.21\%) | 22/266 (8.27\%) | 11/107 (10.28\%) | 14/155 (9.03\%) |
| Sole aneuploidy | 16/155 (10.32\%) | 11/107 (10.28\%) | 37/266 (13.91\%) | 11/107 (10.28\%) | 25/155 (16.13\%) |
| Aneuploidy embryos with mosaic forms | 7/155 (4.52\%) | 2/107 (1.87\%) | 22/266 (8.27\%) | 8/107 (7.48\%) | 7/155 (4.52\%) |
| Aneuploidy embryos with deletion and/or duplication | 2/155 (1.29\%) | 2/107 (1.87\%) | 6/266 (2.26\%) | 2/107 (1.87\%) | 5/155 (3.23\%) |
| Aneuploidy embryos with chromosomal deletion and/or duplication and mosaic forms | 3/155 (1.94\%) | 3/107 (2.8\%) | 5/266 (1.88\%) | 1/107 (0.93\%) | 7/155 (4.52\%) |

* $46.45 \%$ vs. $28.39 \%, \mathrm{OR}=2.19(1.37-3.50), P<0.001 ;$
$\# 9.68 \%$ vs. $20 \%, \mathrm{OR}=0.43(0.22-0.83), P=0.016$

Table 4. PGT-A results and female PN 14 h coefficient $\beta 1$ ranking.

| PGT-A result | First 1 | First 2 | Median | Last 2 | Last 1 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Chromosomal-normal and |  |  |  |  |  |
| mosaic | $54 / 81(66.67 \%)$ | $36 / 56(64.29 \%)$ | $73 / 136(53.68 \%)$ | $34 / 57(59.65 \%)$ | $42 / 81(51.85 \%)$ |
| Euploid with errors | $12 / 81(14.81 \%)$ | $8 / 56(14.29 \%)$ | $28 / 136(20.59 \%)$ | $9 / 57(15.79 \%)$ | $18 / 81(22.22 \%)$ |
| Aneuploid with errors | $15 / 81(18.52 \%)$ | $12 / 56(21.43 \%)$ | $35 / 136(25.74 \%)$ | $14 / 57(24.56 \%)$ | $21 / 81(25.93 \%)$ |

Table 5. PGT-A results (errors stratification) and female PN 14 h coefficient $\beta 1$ ranking.

| PGT-A result | First 1 | First 2 | Median | Last 2 | Last 1 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Chromosomal-normal | $42 / 81(51.85 \%)$ | $25 / 57(43.86 \%)$ | $51 / 136(37.5 \%)$ | $30 / 57(52.63 \%)$ | $28 / 81(34.57 \%)$ |
| Sole mosaic | $12 / 81(14.81 \%)$ | $11 / 57(19.3 \%)$ | $22 / 136(16.18 \%)$ | $4 / 57(7.02 \%)$ | $14 / 81(17.28 \%)$ |
| Sole deletion and/or duplication | $7 / 81(8.64 \%)$ | $6 / 57(10.53 \%)$ | $16 / 136(11.76 \%)$ | $5 / 57(8.77 \%)$ | $13 / 81(16.05 \%)$ |
| Sole deletion and/or duplication |  |  |  |  |  |
| euploidy embryos with mosaic | $6 / 81(7.41 \%)$ | $3 / 57(5.26 \%)$ | $12 / 136(8.82 \%)$ | $4 / 57(7.02 \%)$ | $5 / 81(6.17 \%)$ |


| forms |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Sole aneuploidy <br> Aneuploidy embryos with mosaic <br> forms | $9 / 81(11.11 \%)$ | $6 / 57(10.53 \%)$ | $28 / 136(20.59 \%)$ | $7 / 57(12.28 \%)$ | $11 / 81(13.58 \%)$ |
| Aneuploidy embryos with deletion    <br> and/or duplication $3 / 81(3.7 \%)$ $2 / 57(3.51 \%)$ $5 / 136(3.68 \%)$ | $5 / 57(8.77 \%)$ | $4 / 81(4.94 \%)$ |  |  |  |
| Aneuploidy embryos with <br> chromosomal deletion and/or <br> duplication and mosaic forms | $1 / 81(1.23 \%)$ | $2 / 57(3.51 \%)$ | $2 / 136(1.47 \%)$ | $1 / 57(1.75 \%)$ | $6 / 81(7.41 \%)$ |

Table 6. PGT-SR results and female PN 14 h coefficient $\beta 1$ ranking.

| PGT-SR result | First 1 | First 2 | Median | Last 2 | Last 1 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Chromosome-normal and mosaic | $49 / 74(66.22 \%)^{*}$ | $24 / 50(48 \%)$ | $60 / 130(46.15 \%)$ | $21 / 50(42 \%)$ | $24 / 74(32.43 \%) *$ |
| Euploid with errors | $10 / 74(13.51 \%) \#$ | $18 / 50(36 \%)$ | $35 / 130(26.92 \%)$ | $21 / 50(42 \%)$ | $27 / 74(36.49 \%) \#$ |
| Aneuploid with errors | $15 / 74(20.27 \%)$ | $8 / 50(16 \%)$ | $35 / 130(26.92 \%)$ | $8 / 50(16 \%)$ | $23 / 74(31.08 \%)$ |

*66.22\% vs. $32.43 \%, \mathrm{OR}=4.08$ (2.06-8.10),$P<0.001$
$\# 13.51 \%$ vs. $36.49 \%, \mathrm{OR}=0.27(0.12-0.61), P=0.001$

Table 7. PGT-SR results (errors stratification) and female PN 14 h coefficient $\beta 1$ ranking.

| PGT-SR result | First 1 | First 2 | Median | Last 2 | Last 1 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | 16/74 |
| Chromosome-normal | 30/74 (40.54\%)* | 18/50 (36.00\%) | 49/130 (37.69\%) | 13/50 (26.00\%) | (21.62\%)* |
| Sole mosaic | 19/74 (25.68\%)\# | 6/50 (12.00\%) | 11/130 (8.46\%) | 8/50 (16.00\%) | 8/74 (10.81\%)\# |
| Sole deletion and/or duplication | 8/74 (10.81\%) | 11/50 (22.00\%) | 25/130 (19.23\%) | 14/50 (28.00\%) | 18/74 (24.32\%) |
| Sole deletion and/or duplication euploidy embryos with mosaic forms | 3/74 (4.05\%) | 9/50 (18.00\%) | 10/130 (7.69\%) | 7/50 (14.00\%) | 9/74 (12.16\%) |
| Sole aneuploidy | 7/74 (9.46\%) | 5/50 (10.00\%) | 20/130 (15.38\%) | 4/50 (8.00\%) | 14/74 (18.92\%) |
| Aneuploidy embryos with mosaic forms | 4/74 (5.41\%) | 0 | 6/130 (4.62\%) | 3/50 (6.00\%) | 3/74 (4.05\%) |
| Aneuploidy embryos with deletion and/or duplication | 1/74 (1.35\%) | 0 | 4/130 (3.08\%) | 0 | 4/74 (5.41\%) |
| Aneuploidy embryos with chromosomal deletion and/or duplication and mosaic |  |  |  |  |  |
| forms | 2/74 (2.7\%) | 1/50 (2\%) | 5/130 (3.85\%) | 1/50 (2\%) | 2/74 (2.7\%) |

$$
\begin{aligned}
& * 40.54 \% \text { vs. } 21.62 \%, \mathrm{OR}=2.47(1.20-5.09), P=0.020 ; \\
& \# 25.68 \% \text { vs. } 10.81 \%, \mathrm{OR}=2.85(1.16-7.01), P=0.032
\end{aligned}
$$

Table 8. PGT-SR (errors from the proband) results by female PN 14 h coefficient $\beta 1$ ranking.

| PGT-SR result | First 1 | First 2 | Median | Last 2 | Last 1 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Chromosomal normal embryo | 26/42 (61.9\%)* | 10/27 (37.04\%) | 32/73 (43.84\%) | 12/27 (44.44\%) | 10/42 (23.81\%)* |
| Embryo's chromosomal error coincident with female | 12/42 (28.57\%) | 13/27 (48.15\%) | 28/73 (38.36\%) | 10/27 (37.04\%) | 21/42 (50\%) |
| Embryo's chromosomal error not coincident with female | 4/42 (9.52\%) | 4/27 (14.81\%) | 13/73 (17.81\%) | 5/27 (18.52\%) | 11/42 (26.19\%) | * $61.9 \%$ vs. $23.81 \%, \mathrm{OR}=5.20(2.02-13.37), P<0.001$

Table 9. PGT-SR results (errors from the proband) and male PN 14 h coefficient $\beta 1$ ranking.

| PGT-SR result | First 1 | First 2 | Median | Last 2 |
| :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |
| Chromosomal normal embryo | $19 / 32(59.38 \%)$ | $13 / 23(56.52 \%)$ | $28 / 57(49.12 \%)$ | $12 / 23(52.17 \%)$ |
| Embryo's chromosomal error coincident with |  |  |  |  |
| male | $9 / 32(59.38 \%)$ | $7 / 23(30.43 \%)$ | $23 / 57(40.35 \%)$ | $6 / 23(26.09 \%)$ |
| Embryo's chromosomal error not coincident |  |  |  | $6 / 32(18.75 \%)$ |
| with male | $4 / 32(12.5 \%)$ | $3 / 23(13.04 \%)$ | $6 / 57(10.53 \%)$ | $5 / 23(21.74 \%)$ |

Table 10. The female PN and total DNA content.

| Rank | 0 | DNA increase | decrease |  |
| :---: | :---: | :---: | :---: | :---: |
| 1 | $89 / 155(57.42 \%)$ | $32 / 155(20.64 \%)$ | $33 / 155(21.29 \%)$ | 155 |
| 2 | $79 / 155(50.97 \%)$ | $40 / 155(25.81 \%)$ | $36 / 155(23.23 \%)$ | 155 |
| 3 | $78 / 138(56.52 \%)$ | $39 / 138(28.26 \%)$ | $21 / 138(15.22 \%)$ | 138 |
| 4 | $46 / 107(42.99 \%)$ | $25 / 107(23.36 \%)$ | $36 / 107(33.64 \%)$ | 107 |
| 5 | $40 / 81(49.38 \%)$ | $21 / 81(25.93 \%)$ | $20 / 81(24.69 \%)$ | 81 |
| 6 | $33 / 56(58.93 \%)$ | $12 / 56(21.43 \%)$ | $11 / 56(19.64 \%)$ | 56 |
| 7 | $23 / 37(62.16 \%)$ | $9 / 37(24.32 \%)$ | $5 / 37(13.51 \%)$ | 37 |
| 8 | $13 / 25(52.00 \%)$ | $8 / 25(32.00 \%)$ | $4 / 25(16.00 \%)$ | 25 |
| 9 | $8 / 13(61.54 \%)$ | $4 / 13(30.77 \%)$ | $1 / 13(7.69 \%)$ | 13 |
| 10 | $6 / 12(50.00 \%)$ | $3 / 12(25.00 \%)$ | $3 / 12(25.00 \%)$ | 12 |
| $>10$ | $2 / 11(18.18 \%)$ | $5 / 11(45.45 \%)$ | $4 / 11(36.36 \%)$ | 11 |
|  | 417 | 199 | 174 | 790 |

Correlation analysis: $P=0.491$

## Supplement

Fig. 1. The heterogeneity of female pronucleus area coefficient $\beta 1$





## Supplement

Fig. 2. The definition of ranking by PN coefficient $\beta 1$.

| Number of embryo | Ranking by PN coefficient $\beta 1$ |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | 1 | 2 |  |  |  |  |  |  |  |  | First 1 |
| 3 | 1 | 2 | 3 |  |  |  |  |  |  |  | First 2 |
| 4 | 1 | 2 | 3 | 4 |  |  |  |  |  |  | Medi |
| 5 | 1 | 2 | 3 | 4 | 5 |  |  |  |  |  | Last 2 |
| 6 | 1 | 2 | 3 | 4 | 5 | 6 |  |  |  |  | Last 1 |
| 7 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |  |  |  |  |
| 8 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |  |  |  |
| 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |  |  |
| 10 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |  |
| 11 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |

Fig. 3. Chromosome-normal rate in a female age-dependent distribution.


