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| Effect of carbon monoxide donor CORM-2 on porcine oocytes after 24 hrs *in vitro* aging (mean±SEM) |
|  | C | 5 µM | 25 µM | 50 µM | 100 µM |
| MII | 94,01±1,54A | 100,00±0,00A | 97,98±2,02A | 98,04±1,96A | 96,54±1,93A |
| A | 1,74±0,65A | 0,00±0,00A | 1,01±1,01A | 0,00±0,00A | 0,00±0,00A |
| L | 2,11±0,75A | 0,00±0,00A | 0,00±0,00A | 0,00±0,00A | 0,00±0,00A |
| PA | 2,14±0,61A | 0,00±0,00A | 1,01±1,01A | 1,96±1,96A | 3,46±1,93A |

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| Effect of carbon monoxide donor CORM-2 on porcine oocytes after 48 hrs *in vitro* aging (mean±SEM) |
|  | C | 5 µM | 25 µM | 50 µM | 100 µM |
| MII | 67,09±1,64A | 77,67±0,52B | 80,56±1,43B | 80,13±0,94B | 75,73±1,37B |
| A | 21,45±1,28A | 14,75±0,32B | 11,54±1,46B | 12,80±1,74B | 13,80±1,43B |
| L | 1,12±0,52A | 0,00±0,00A | 0,61±0,61A | 0,00±0,00A | 0,00±0,00A |
| PA | 10,35±1,01A | 7,58±1,69A | 7,29±2,08A | 7,07±1,56A | 10,47±1,76A |

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| Effect of carbon monoxide donor CORM-2 on porcine oocytes after 72 hrs *in vitro* aging (mean±SEM) |
|  | C | 5 µM | 25 µM | 50 µM | 100 µM |
| MII | 17,46±1,74A | 32,58±4,99B | 37,37±4,04B | 39,05±2,21B | 30,06±2,39B |
| A | 60,44±2,73A | 51,52±1,52B | 43,00±3,59B | 43,75±3,24B | 47,35±1,45B |
| L | 1,84±0,96A | 0,00±0,00A | 0,00±0,00A | 0,88±0,88A | 2,95±1,51A |
| PA | 20,26±2,13A | 15,91±3,50A | 19,62±4,56A | 16,32±3,09A | 19,64±2,36A |

The effect of carbon monoxide donor CORM-2 on porcine oocytes during *in vitro* aging. Oocytes were cultivated to metaphase II and then exposed to *in vitro* aging in a modified M199 medium supplemented with CORM-2 at concentrations 5; 25; 50; 100 μM for 24, 48 or 72 hours. Control group (C) of oocytes were cultivated in medium containing iCORM-2. A,B Statistically significant differences (in rows) in the ratio of oocytes are indicated with different superscripts (P<0.05). The total number of oocytes in each experimental group was 120. *MII - metaphase II (intact) oocytes; A - apoptotic oocytes; L - lytic oocytes; PA - parthenogenetically activated oocytes.*