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## A preliminary report of successful cleavage after Calcium Ionophore activation at ICSI in cases with previous arrest at the Pronuclear stage

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Artificial oocyte activation (AOA) has been previously suggested as a means to overcome the problem of total fertilization failure, which affects about 1–3% of the intracytoplasmic sperm injection (ICSI) cycles. A preliminary study on the application of chemical AOA was conducted using A23187 Ca<sup>2+</sup> ionophore to improve embryonic development in four women with a history of complete fertilization arrest and inability to transit to cleavage stage during previous ICSI trials. Data indicated that activated oocytes resulted in better fertilization, embryonic development and clinical pregnancy in one of the four couples. Therefore, ICSI combined with AOA using Ca<sup>2+</sup> ionophore may be useful in selected patients with cleavage failure, and may help the zygotes to reach more advanced developmental stages. I have to say that this is a novel usage to Ca<sup>2+</sup> ionophore in treating embryo cleavage block

### Biography

Ehab Darwish founded TopLab co. For IVF (In vitro fertilization) labs consultations in 2014. He did many researches in ART (Assisted reproductive techniques). He got his Master's degree in Health Care Management in 2013, after his Post-graduate studies from University of Bristol, United Kingdom in 2009. He is a medical school graduate, Ain Shams University, Egypt. He is running many IVF labs in Egypt and UAE. His consultations company is running national and international training courses for ART techniques. His years of experiences gave him the ability to set up labs., and improve others' performances through his company's services.

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