



新聞稿 PRESS RELEASE

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THE BIRTH OF THE FIRST BABY IN HONG KONG FROM
MICROMANIPULATION OF HUMAN GAMETES

(Sperm micro-injection into eggs)

The Department of Obstetrics and Gynaecology of the Chinese University of Hong Kong wishes to announce the delivery of the first baby born in Hong Kong as a result of infertility treatment using the Micro-Injection of Human Oocytes. The healthy 4.0 kg baby boy was delivered by Caesarean section on Saturday, 9th April, and is progressing normally.

Research into the micro-injection of oocytes (eggs) commenced in the Department in June, 1993. This technique is known as the sub-zonal insemination of oocytes (SUZI). It is used in cases of severe male factor infertility or when there is failure of fertilization of the oocytes (eggs). One or more sperm are injected under the capsule of the egg so that sperm come to lie directly adjacent to the cell membrane. This takes place in the laboratory of the Assisted Human Reproduction Unit, and the micro-injection is carried out under a microscope at a magnification of 200X. The eggs themselves are approximately 0.1 mm in diameter, requiring very fine and sophisticated equipment for this procedure. The egg is steadied in a holding pipette, and a hollow needle is slowly introduced through the capsule until it reaches the covering membrane of the egg. The best quality sperm are chosen for micro-injection, and a number of these are drawn up into the needle and deposited under the capsule of the egg. The eggs are then placed in an incubator, and inspected on the following day to determine whether the technique has been successful (whether fertilization has occurred). If so, the fertilized eggs are returned to the uterus on the following day.

Further research is to be continued in this area, and already there are improvements in the technique which may increase the success rate of the micro-injection procedure.

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