

Researchers improve the survival rate of embryos in assisted reproduction

LOCATION: Seville

DURATION: 1'30"

SUMMARY: A new technique avoids that embryos have direct contact with the liquid nitrogen that freezes it for their preservation. This way, the risk of contamination is avoided. In addition, it makes permits freezing and defrosting them much faster, increasing the survival rate of embryos, sperm and eggs after cryopreservation up to almost a 100%.

VTR

He is a biologist and manipulates an egg to cryo-preserve it, freeze it. It does it using a new system developed by researchers of the University of Seville that can mean a revolution in assisted reproduction.

RAMÓN RISCO
Researcher of SafePreservation

"It is a high efficient cryopreservation of eggs, embryo and sperm, with the highest existing efficiency and closed."

What means closed? That unlike other systems used in Spain until now, the embryo or egg, in this case, it isn't in direct contact with the liquid nitrogen that freezes it. This thin tube is introduced and it is hermetically sealed. This way, they avoid a possible contamination of the egg, as it could happen before, that spoils it.

RAMÓN RISCO
Reseracher of SafePreservation

"The secret is here inside, is well-kept. It is an ultra-thin capillary tube with special geometry and properties."

PASCUAL SÁNCHEZ
Ginecologist at Ginemed

"Heat or cold transmission is practically instantaneous."

This is the second advantage of the system. The design and the material of the tube permit freezing, and mainly defrosting it much faster. That is what makes the embryo or the egg survive in almost a 100% of the cases.

PASCUAL SÁNCHEZ
Ginecologist at Ginemed

"Shortly, in one or two years, I think almost all the centers will be using this type of system."

It this clinic in Seville they run tests to prove its effectiveness and it has been the first one applying it. Other enterprises and health centers in France, Germany and Italy have shown interest for it.

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