

Vitrified Blastocyst Pregnancy Rates 2009.

	Vitrified	Slow Frozen
Cycles	167	161
Mean Age	35.2	36.4
Survival rate	91.4%	76.3%
Pregnancy rate/ Cycle	56.3%	44.1%
Implantation rate	35%	26%

This table demonstrates our excellent pregnancy rates since employing vitrification as our sole method of freezing at CRGH. This table compares the survival rates (the number of embryos that survive the warming process). We have seen a significant improvement in survival rates from 76.3% to 91.4%. This translates in fewer patients having cancelled cycles due to the complete failure of survival of embryos post-warming. An improvement in both pregnancy and implantation rates has also been observed.

	Post Thaw Hatching	No Post thaw hatching done
No of cycles	59	72
Mean age	34	35
Mean no of embryos transferred	2.0	2.0
Pregnancy rate/ cycle	66.1%	51.4%
Implantation rate	41.3%	29.1%

More recently, CRGH has been using a laser to create a hole in the zona of the blastocysts upon warming. This is to ensure that the cells can successfully hatch out of the zona pellucida (the shell of the embryo) and implant to form a pregnancy. The table above compares our frozen thawed blastocyst cycles where hatching was or was not used. It can be seen clearly that a vastly improved pregnancy and implantation rate can be seen. Post-thaw hatching is now performed routinely in our frozen cycles.