

# Human Assisted Reproduction 2012 Live Birth Rates for Canada



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## ASSISTED HUMAN REPRODUCTION LIVE BIRTH RATES FOR CANADA

The Canadian Fertility and Andrology Society (CFAS) today released the twelfth annual nation-wide results on assisted human reproduction success rates in Canada. The rates of pregnancy and live birth in the country's fertility clinics are on par with other national registries, including the United States. The complication rate remains low.

Under the leadership of the CFAS and the IVF Medical Directors of Canada, all in vitro fertilization (IVF) centres in Canada voluntarily participated in the collection of nationwide data on the results of assisted reproduction. The data were presented at the 15th annual meeting of the Directors of Canadian IVF Centres, held in Ottawa, ON, under the auspices of the CFAS.

Live birth rates were reported for a combined total of 11,806 IVF treatment cycles (including intracytoplasmic sperm injection [ICSI]) undertaken in all 28 IVF centres in Canada in 2010. There were 3254 IVF/ICSI treatment cycles performed in 8 centres in Western Canada, 5275 cycles in 14 centres in Ontario, 2969 cycles in 5 centres in Quebec, and 308 cycles in 2 centres in Atlantic Canada.

The overall live birth rate was 27% per cycle started, 29% per egg retrieval procedure, and 31% per embryo transfer procedure.

76% of births were singletons, 23% were twins, and 0.8% were triplets or more. This represents a decrease in multiple birth rate of 5 percentage points, compared with 2009.

The live birth rates per cycle started, by age of the mother, were:

38% for women under 35 years old

26% for women aged 35-39 years

11% for women 40 years old and over.

The proportion of babies with congenital anomalies was not different from that in the population of women conceiving naturally.

The miscarriage rate of 18% per clinical intrauterine pregnancy is in keeping with that for natural conceptions.

Preliminary results were reported for a combined total of 14,677 IVF/ICSI treatment cycles undertaken in 29 of 30 IVF centres in Canada in 2011:

The overall clinical pregnancy rate was 31% per cycle started, 33% per egg retrieval procedure, and 37% per embryo transfer procedure.

78% of viable pregnancies were singletons, 21% were twins, and 1.3% were triplets or more. This represents a decrease in multiple pregnancy rate of 4 percentage points, compared with 2010.

The clinical pregnancy rates per cycle started, by age of the mother, were:

39% for women under 35 years old

31% for women aged 35-39 years

16% for women 40 years old and over.

Complications occurred in fewer than 2% of treatment cycles.

Live birth rates for assisted human reproduction cycles started in 2011 will be released when they become available.

The CFAS makes these data available for reference and education. The information should be reviewed together with an appropriate healthcare professional. Results vary by centre and specific information can be obtained from each centre. A list of the participating IVF centres is available on request through the CFAS.

Starting in January 2013, CARTR will be merging with Better Outcomes Registry & Network (BORN) Ontario, the Ontario perinatal registry. This collaboration will enable improvements in CARTR data collection, analysis, and reporting. And, for infants born in Ontario, it will allow more detailed and extended follow-up of the health of mothers and infants both before and after birth.

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