

# In vitro fertilization linked with increased risk of congenital heart defects

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A new analysis of published studies found a 45% increased risk of congenital heart defects in newborns when women become pregnant via in vitro fertilization (IVF)/intracytoplasmic sperm injection (ICSI) than through spontaneous conception.

The *Ultrasound in Obstetrics and Gynecology* analysis included 8 studies with 25,856 children obtained from IVF techniques and 287,995 children spontaneously conceived and a total of 2289 [congenital heart defects](#).

Congenital heart defects were found in 1.30% and 0.68% in the IVF/ICSI and spontaneous conception groups, respectively.

"We believe that IVF/ICSI pregnancies present an [increased risk](#) of CHDs as a consequence of early placental dysfunction; however this hypothesis should be demonstrated in future studies. We recommend fetal echocardiography in all pregnancies from IVF/ICSI," said lead author Dr. Paolo Cavorotto, of the IRCCS San Raffaele Hospital, in Milan, Italy.

**More information:** Veronica Giorgione et al, Congenital heart defects in IVF/ICSI pregnancy: a systematic review and meta-analysis, *Ultrasound in Obstetrics & Gynecology* (2017). [DOI: 10.1002/uog.18932](https://doi.org/10.1002/uog.18932)

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