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## Assisted Reproductive Technology

**Also called:** ART, In Vitro Fertilization, IVF


Assisted reproductive technology (ART) is used to treat infertility [<https://medlineplus.gov/infertility.html>]. It includes fertility treatments that handle both a woman's egg and a man's sperm. It works by removing eggs from a woman's body. The eggs are then mixed with sperm to make embryos. The embryos are then put back in the woman's body. In vitro fertilization (IVF) is the most common and effective type of ART.

ART procedures sometimes use donor eggs, donor sperm, or previously frozen embryos. It may also involve a surrogate or gestational carrier. A surrogate is a woman who becomes pregnant with sperm from the male partner of the couple. A gestational carrier becomes pregnant with an egg from the female partner and the sperm from the male partner.



The most common complication of ART is a multiple pregnancy [<https://medlineplus.gov/twinstripletsmultiplebirths.html>]. It can be prevented or minimized by limiting the number of embryos that are put into the woman's body.

### Learn More

- **Assisted Reproductive Technologies** [<https://www.asrm.org/topics/topics-index/assisted-reproductive-technologies/>] (American Society for Reproductive Medicine) – **PDF**  
 Also in **Spanish** [[https://www.reproductivefacts.org/globalassets/rf/news-and-publications/bookletsfact-sheets/spanish-fact-sheets-and-info-booklets/tecnologias\\_de\\_reprocuccion\\_assistada\\_spanish.pdf](https://www.reproductivefacts.org/globalassets/rf/news-and-publications/bookletsfact-sheets/spanish-fact-sheets-and-info-booklets/tecnologias_de_reprocuccion_assistada_spanish.pdf)]
- **Assisted Reproductive Technology (ART)**  
<https://www.nichd.nih.gov/health/topics/infertility/conditioninfo/treatments/art>  
 (National Institute of Child Health and Human Development)  
 Also in **Spanish** [<https://www1.nichd.nih.gov/espanol/salud/temas/infertility/informacion/Pages/art.aspx>]
- **Counseling Issues for Gay Men and Lesbians Seeking Assisted Reproductive Technologies (ART)**  
[https://www.reproductivefacts.org/globalassets/rf/news-and-publications/bookletsfact-sheets/english-fact-sheets-and-info-booklets/counseling\\_issues\\_to\\_discuss\\_with\\_gay\\_men\\_and\\_lesbians\\_seeking\\_art\\_factsheet.pdf](https://www.reproductivefacts.org/globalassets/rf/news-and-publications/bookletsfact-sheets/english-fact-sheets-and-info-booklets/counseling_issues_to_discuss_with_gay_men_and_lesbians_seeking_art_factsheet.pdf)  
 (American Society for Reproductive Medicine) – **PDF**  
 Also in **Spanish** [[https://www.reproductivefacts.org/globalassets/rf/news-and-publications/bookletsfact-sheets/spanish-fact-sheets-and-info-booklets/temas\\_de\\_asesoramiento\\_para\\_personas\\_homosexuales\\_que\\_buscan\\_tecnologias\\_de\\_reproduccion\\_asistida\\_tra-spanish.pdf](https://www.reproductivefacts.org/globalassets/rf/news-and-publications/bookletsfact-sheets/spanish-fact-sheets-and-info-booklets/temas_de_asesoramiento_para_personas_homosexuales_que_buscan_tecnologias_de_reproduccion_asistida_tra-spanish.pdf)]
- **Fertility Clinic Success Rates** [<https://www.cdc.gov/art/reports/2013/fertility-clinic.html>]  
 (Centers for Disease Control and Prevention)

- In vitro fertilization (IVF) [<https://medlineplus.gov/ency/article/007279.htm>] (Medical Encyclopedia)  
Also in [Spanish](https://medlineplus.gov/spanish/ency/article/007279.htm) [<https://medlineplus.gov/spanish/ency/article/007279.htm>]
- In Vitro Fertilization (IVF) [<https://www.mayoclinic.org/tests-procedures/in-vitro-fertilization/about/pac-20384716?p=1>] (Mayo Foundation for Medical Education and Research)
- Intracytoplasmic sperm injection [<https://medlineplus.gov/ency/anatomyvideos/000074.htm>]  
 (Medical Encyclopedia)  
Also in [Spanish](https://medlineplus.gov/spanish/ency/anatomyvideos/000074.htm) [<https://medlineplus.gov/spanish/ency/anatomyvideos/000074.htm>]
- National ART Success Rates [<https://www.cdc.gov/art/reports/2013/national-summary.html>]  
(Centers for Disease Control and Prevention)
- Ovarian hyperstimulation syndrome [<https://medlineplus.gov/ency/article/007294.htm>]  
(Medical Encyclopedia)  
Also in [Spanish](https://medlineplus.gov/spanish/ency/article/007294.htm) [<https://medlineplus.gov/spanish/ency/article/007294.htm>]
- Preparing for Assisted Reproductive Technology  
[<https://www.cdc.gov/art/patientResources/preparing.html>]  
(Centers for Disease Control and Prevention)
- Prerequisite Testing for Infertility Treatment [<https://www.sart.org/patients/a-patients-guide-to-assisted-reproductive-technology/general-information/prerequisite-testing/>]  
(Society for Assisted Reproductive Technology)
- Review of Research Shows, Overall, Acupuncture Did Not Increase Pregnancy Rates with IVF  
[<https://nccih.nih.gov/research/results/spotlight/072913>]  
 (National Center for Complementary and Integrative Health)
- Third Party Reproduction: Sperm, Egg, and Embryo Donation and Surrogacy  
[<https://www.reproductivefacts.org/news-and-publications/patient-fact-sheets-and-booklets/fact-sheets-and-info-booklets/third-party-reproduction-sperm-egg-and-embryo-donation-and-surrogacy/>] (American Society for Reproductive Medicine)

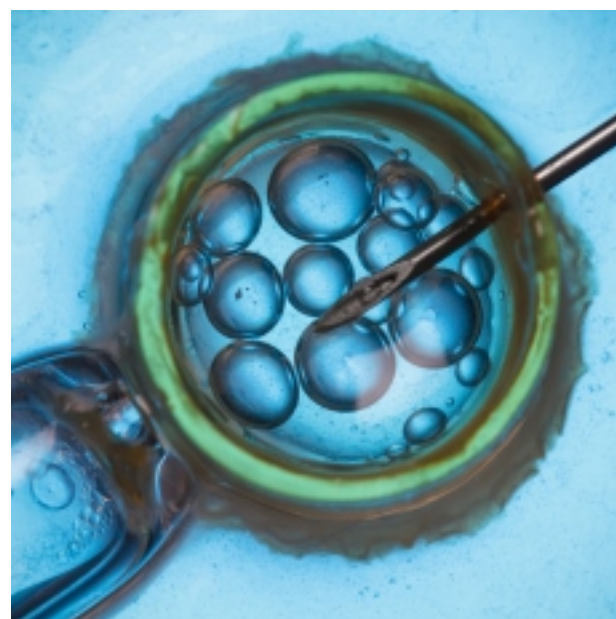
## Clinical Trials

- ClinicalTrials.gov: Fertilization in Vitro  
[<https://clinicaltrials.gov/search/open/condition=%22Fertilization+in+Vitro%22>]  
 (National Institutes of Health)
- ClinicalTrials.gov: Reproductive Techniques, Assisted  
[<https://clinicaltrials.gov/search/open/intervention=Assisted+Reproductive+AND+%28Techniques+OR+Technology%29>]  (National Institutes of Health)

## Journal Articles

References and abstracts from MEDLINE/PubMed (National Library of Medicine)

- Article: Care plans for women pregnant using assisted reproductive technologies: a...  
[<https://www.ncbi.nlm.nih.gov/pubmed/30696452>]
- Article: The casual effect of lifestyle factors on outcomes of assisted...  
[<https://www.ncbi.nlm.nih.gov/pubmed/30558625>]
- Article: Be Fruitful and Multiply: Kinship, Sociality and Non-Reproduction.  
[<https://www.ncbi.nlm.nih.gov/pubmed/30489185>]
- Assisted Reproductive Technology -- see more articles [<https://www.ncbi.nlm.nih.gov/pubmed/?term=assisted+reproductive+technology+%5Bmajr%3Aanoexp%5D+AND+english%5Bla%5D+AND+humans%5Bmh%5D+NOT+>]



## National Institutes of Health

The primary NIH organization for research on *Assisted Reproductive Technology* is the Eunice Kennedy Shriver National Institute of Child Health and Human Development [<https://www.nichd.nih.gov/Pages/index.aspx>]

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