In vitro fertilization (IVF) is the most commonly used Assisted Reproductive Technology. Thanks to it, childless couples have the chance to become parents. The difference between IVF and IUI, artificial insemination, or just IUI, is another infertility treatment, though less technically challenging than IVF. With IUI, the partner's sperm is inserted into the female's uterus, and fertilization occurs inside the female reproductive tract as it would with sexual intercourse, without further medical involvement. Implications of complete fertilization failure after intracytoplasmic sperm injection for subsequent fertilization and reproductive outcome. Hum Reprod; 13:2212–2216. Pashayan N, Lyratzopoulos G, Mathur R (2006).