

07. Efficacy of Gefitinib Combined with Methotrexate in the Medical Management of Ectopic Pregnancy.Tanishka Muraleedharan¹, Anushka Bansal¹.¹ACS Medical College and Hospital, Chennai, Tamil Nadu, India.

Background: Ectopic pregnancy is a potentially life-threatening implantation of a fertilized ovum outside the uterine cavity, accounting for significant first-trimester maternal morbidity and mortality. Methotrexate is the standard medical therapy; however, treatment failure and need for rescue surgery remain major clinical concerns. **Objective:** The study aims to evaluate the efficacy of gefitinib combined with methotrexate in the medical management of ectopic pregnancy. **Methodology:** The study analyses the efficacy of gefitinib–methotrexate combination therapy by evaluating treatment success without surgery, β -hCG decline, time to resolution, adverse effects, and need for additional intervention through clinical trials and review evidence. **Results:** Combination therapy demonstrated successful resolution in 86% of stable tubal ectopic pregnancies without surgical intervention. Median resolution time was reduced by nearly 34% compared with methotrexate alone, with significantly faster β -hCG decline observed during the first week of treatment. In non-tubal ectopic pregnancies, successful resolution and preservation of fertility outcomes were also reported. Common adverse effects included transient acneiform rash and diarrhea, while serious toxicities remained uncommon. **Conclusion:** Gefitinib combined with methotrexate represents a promising adjunctive medical therapy for ectopic pregnancy by enhancing trophoblastic regression and reducing treatment duration. The combination may improve conservative management outcomes, although further large-scale randomized trials are required to establish long-term efficacy and safety.

Key Words: Ectopic Pregnancy; Gefitinib; Methotrexate; Tubal Ectopic Pregnancy; Conservative Management; β -hCG; Trophoblastic Regression; Fertility Preservation; Targeted Therapy; Medical Management

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