Topic : Liver

## THE IMPACT OF MULTIDISCIPLINARY TEAM APPROACH ON CLINICAL OUTCOMES IN HEPATOCELLULAR CARCINOMA: A PROPENSITY SCORE-MATCHED COHORT STUDY

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**Background** : Despite widespread implementation of multidisciplinary team (MDT) approach in hepatocellular carcinoma (HCC) management, evidence supporting its effectiveness remains limited. This study investigated the association between MDT-based treatment decisions and clinical outcomes in HCC patients.

**Methods** : In this retrospective study, propensity score matching was performed using age, sex, viral markers (HBV, HCV), and platelet count, yielding 304 matched pairs of MDT and non-MDT groups. Treatment adherence in the MDT group was classified as adherent (n=233), modified (n=56), or untreated (n=13). Primary endpoints were overall survival (OS) and disease-free survival (DFS).

**Results** : Median follow-up was 16 months for MDT group and 49 months for non-MDT group. After matching, baseline characteristics were well-balanced (all p>0.4). MDT group showed superior 3-year OS (94.9% vs 72.1%) and longer median survival (51.1 vs 14.7 months; p<0.001). Disease-free survival was comparable (3-year DFS: 50.9% vs 53.3%). In the MDT group, 76.6% of patients adhered to planned treatment, while 18.4% required modifications.

**Conclusions** : MDT approach was independently associated with improved overall survival in HCC patients, though not affecting disease-free survival. High treatment adherence demonstrates the feasibility of MDT-based decision-making in clinical practice.

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