**RESEARCH PROPOSAL -AI IN HEALTHCARE 5114**

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**Title-**

Predictive AI Model for Glioblastoma Treatment for Effective Outcomes as compared to clinical outcomes result.

**Abstract-** GBM is the most lethal and fast-growing brain tumor with a prolongation rate is barely 18 months. Despite the strenuous effort, treatment is still challenging because of its heterogeneous nature and complex genetic mutation. Woefully, there is no treatment therapy and a high failure rate of clinical trials. As well several repurposing of drugs and new innovative designs of investigational drugs have been applied but treatment benefit is still subpar, expensive, and time-consuming.

This research study aims to develop a robust predictive model for glioblastoma treatment effective outcomes based on machine learning which are efficient, less-costly, timesaving and promising by integrating multiple clinical trials of 200-300 patients ages between 18-70 years. Using advanced machine learning model, it predicts survival curves for GBM patients and estimates the progression advancement of treatment as compared to traditional clinical trial method. This research can show that the model surpasses the existing traditional method in predicting survival at various time points and will be potentially effective and a powerful tool for treatment planning.