

## A Comparative Study of the Use of Medicinal Plants and Conventional Medicine for the Treatment of Hepatitis B Virus in Ibadan Metropolis

**Authors :** Julius Adebayo John

**Abstract :** The objective of this study is to compare the use of medicinal plants and Conventional medicine intervention in the management of HBV among Ibadan populace. A purposive sampling technique was used to administer questionnaires at 2 places, namely, the University College Hospital and Total Healthcare Diagnostic Centre, Ibadan, where viral loads are carried out. A EuroQol (EQ - 5D) was adopted to collect data. Descriptive and inferential analyses were performed. Also, ANOVA, Correlation, charts, and tables were used. Findings revealed a high prevalence of HBV among female respondents and sample between ages 26years to 50years. Results showed that the majority discovered their health status through free HBV tests. Analysis indicated that the use of medicinal plant extract is cost-effective in 73% of cases. Rank order utility derived from medicinal plants is higher than other interventions. Correlation analysis performed for the current health status of respondents were significant at  $P < 0.01$  against the intervention management adopted (0.046), cost of treatment (0.549), utility (0.407) at  $P < 0.00$ , duration of the treatment (0.604) at  $P < 0.01$ ; viral load before treatment (-0.142) not significant at  $P < 0.01$ , the  $R^2$  (72.2%) showed the statistical variance in respondents current health status as explained by the independent variables. Respondents gained quality-adjusted life-years (QALYs) of between 1year to 3years. Suggestions were made for a public-private partnership effort against HBV with emphasis on periodic screening, viral load test subsidy, and free vaccination of people with -HBV status. Promoting phytomedicine through intensive research with strong regulation of herbal practitioners will go a long way in alleviating the burdens of the disease in society.

**Keywords :** medicinal plant, HBV management interventions, utility, QALYs, ibadan metropolis

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