## Cfkrqpgevkp."Ngrvkp."KIH3"cpf"VPH "ugtwo"dkqoctmgtu"hqt"pqp/kpxcukxg"fkcipquku"qh"eqnqtgevcn" cfgpqoc

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**Background and Aim**: e potential role of Adiponectin, Leptin, IGF1 and TNF as biomarkers in colorectal adenoma is not clear. erefore, we aimed to investigate the blood serum levels of these biomarkers in colorectal adenoma.

**Method**: e case-control stud aconsisted of serum from 180 African American patients with colon adenoma (cases) and 198 health individuals (controls) at Howard Universit. Hospital. We used ELISA for Adiponectin, Leptin, IGF1 and TNF detection and quantication. Statistical anal is was performed bat-test and multivariate logistic regression.

**Results**: e respective di erences in median Leptin, Adiponectin, IGF1 and TNF levels between control and case groups (13.9 vs. 16.4), (11.3 vs. 46.0), (4.5 vs. 12.9) and (71.4 vs. 130.8) were statisticall signi cant (p<0.05). In a multivariate model, the odds ratio (ORs) for Adiponectin, TNF and IGF1 were 2.0 (95% CI=1.6 2.5; P<0.001), 1.5 (95% CI=1.5 2.0; P 0.004) and 1.6 (95% CI=1.3 2.0; P<0.001), respectivel ere was a positive correlation between serum Adiponectin and IGF1 concentrations with age (r=0.17, P<0.001 and r=0.13, P=0.009), TNF , IGF1 and Leptin concentration with Bod Mass Inde (BMI) (r=0.44, P<0.001; r=0.11, P=0.03 and r = 0.48, P<0.001), respectivel Also, there was a negative correlation between Adiponectin and Leptin concentration with BMI (r=-0.40, P<0.001 and), respectivel

**Conclusion**: ese data support the hapothesis that Adiponectin, IGF1 and TNF high level are increasing the risk of colon adenoma and can be applied for colorectal adenomas risk assessment.

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Neurologic complications a er liver transplantation are a major source of morbidit and mortalit and proper prediction for those at risk matchelp in improving the outcome. e results of our stud showed that severit of end stage liver failure prior to transplantation might be the most common risk factor for the development of post-transplant neurological complications and careful evaluation of other risk factors made be required for those patients in order to decrease the incidence of complications. Still the use of tacrolimus is associated with risk of neurological complications and reduction or discontinuation of tacrolimus lead to improvement of neurological complications. According to our stud electrol are and metabolic derangements are not risk factors for development of neurological complications. Although, the risk of neurological complications in our series is high but there was no impact on the survival.

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