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Evaluating the expression of known pro-infammatory and obesity markers in prostate cancer

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In the United States, childhood obesity has been a growing epidemic with, 1/3 of US children considered overweight or obese. e increased number of overweight and obese children can be linked to several factors including nutrition and social economic status. Households that do not have access to healthy, nutritious foods are signicantly more likely to be obese earlier in life than other children. Obesity in children can lead to numerous health complications such as diabetes, high blood pressure, chronic in ammation and carcinogenesis. African American minorities are more likely to be diagnosed and die from one of the various forms of cancer. erefore, eliminating or reducing preventable risk factors such as unhealthy nutrition and childhood obesity could have important implications for reducing clinical manifestations of adult cancer outcomes. In order to understand the implication of in ammation in the participants, we rst analyzed the expression of the in ammation biomarker in prostate cancer cells, used as our baseline data. e pro-in ammatory markers and obesity related genes investigated include adiponectin, leptin, SAA1 /2, interleukin 1 and 6. e transcriptional levels of pro-in ammatory genes were measured by quantitative real-time polymerase chain reaction. e results indicated that the expressions of chronic in ammation markers were increased in cancer DNA as compared to normal DNA. Overall reducing childhood obesity and pro-in ammatory diets while increasing physical activity and access to healthy foods are bene cial in the reduction (f)-9.9 (r)ywere inwere inory6rave bwle increasing physical activity and access to healthy foods are bene cial in the reduction (f)-9.9 (r)ywere inwere inory6rave bwle increasing physical activity and access to healthy foods are bene cial in the reduction (f)-9.9 (r)ywere inwere inory6rave bwle increasing physical activity and access to healthy foods are bene cial in the reduction (f)-9.9 (r)ywere inwere inory6rave bwle increasing physical activity and access to healthy foods

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