

Obese men may have higher chance of recurrence following radical prostatectomy

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Among men with prostate cancer who underwent radical prostatectomy (RP), those who were obese had a higher risk of biochemical recurrence, according to data presented at the American Association for Cancer Research Special Conference Obesity and Cancer: Mechanisms Underlying Etiology and Outcomes, held Jan. 27-30.

Biochemical <u>recurrence</u> was defined as two consecutive prostate-specific antigen (PSA) measurements of ≥ 0.2 ng/mL after prostatectomy, which is indicative of recurrent <u>prostate cancer</u>.

"Obesity and metabolic <u>syndrome</u> have become increasingly widespread in our society," said Arash Samiei, MD, basic scientist and clinical researcher at the Department of Urology at the Allegheny Health Network in Pittsburgh. "Prostate <u>cancer</u> is the most common cancer in men, and up to 30 percent of patients will develop recurrence after RP. We wanted to investigate the association between obesity and metabolic syndrome with the oncological outcome following prostate removal."

Samiei explained that previous studies linking high body mass index (BMI) and metabolic syndrome to increased risk of recurrence following RP have been controversial. To build upon previous research, Samiei and colleagues performed a large study with long-term follow-up to conduct a more comprehensive analysis.

Samiei and colleagues conducted a retrospective study of all RPs (1,100 surgeries) performed by two surgeons at Allegheny General Hospital in



Pittsburgh between 2003 and 2013. They analyzed Gleason score, pathologic stage, pre-operative PSA, biochemical recurrence time, surgical margin status, and metabolic factors, such as fasting glucose, triglycerides, cholesterol levels, including HDL, pre-operative BMI, and blood pressure.

Patients were categorized as having low-, intermediate-, or high-risk prostate cancer based on pathological staging and grading of the disease. Metabolic syndrome positivity was determined using the World Health Organization (WHO) classification, where at least three out of the following five factors are simultaneously present in an individual - insulin resistance or type 2 diabetes, obesity, high cholesterol or low HDL levels, high triglycerides, and hypertension. The average age of the patient at diagnosis was 60 years, and the average follow-up time was 48 months.

Among the patients studied, 34 percent were obese, as defined by BMI, and 19 percent had metabolic syndrome.

Samiei and colleagues found a higher percentage of obese patients in the high-risk group (41.2 percent of high-risk patients) compared to obese patients in the low/intermediate group (32 percent of low/intermediate risk patients). Additionally, biochemical recurrence was higher in patients with BMI \geq 30 (32.4 percent) compared to patients with BMI

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