

# Mental health status prior to bladder cancer surgery can indicate risk of complications

17 December 2015

A patient's mental health prior to surgery can influence postoperative outcomes. Removal of the bladder, or radical cystectomy (RC), is an effective treatment for locally advanced bladder cancer, but complications occur in as many as 66% of patients. In a study in *The Journal of Urology*, researchers found that patients whose self-assessment of mental health was low suffered more high grade complications in the 30 days following surgery than patients with higher self-assessments.

"Prior studies have suggested that poor baseline [mental health](#) can lead to more significant postoperative complications possibly due to impaired immune response associated with higher levels of stress," explained Scott M. Gilbert, MD, MS, of the H. Lee Moffitt Cancer Center, Tampa, FL. "This may delay both wound healing and the ability to fight infection in the postoperative state, for example. Although self-appraisal of overall well-being may mediate physiologic responses to [surgery](#), patient-reported health status has not been extensively studied among bladder cancer [patients](#) to date, and its utility in predicting postoperative outcomes, such as complications, has not been previously examined."

Using a quality of life survey, the Medical Outcomes Study Short Form (SF-12), patients appraised their own health and quantified the effects of disease and treatment on their overall well-being. The SF-12 is a standardized, validated questionnaire that measures composite scores for physical (PCS) and mental (MCS) components of health.

This study showed a relevant association between patient reported mental health status and high grade [complications](#) after RC for patients with bladder cancer. In 274 patients who had undergone RC and had completed the SF-12, MCS was statistically significantly lower in those who had a high grade 30-day complication rate (44.8 vs 49.8,  $p=0.004$ ) but PCS was not (39.2 vs

43.8,  $p=0.06$ ).

"Recognition of poor preoperative mental health may represent a potential signal warranting more proactive recognition and assessment preoperatively," noted Dr. Gilbert.

**More information:** "Preoperative Patient-Reported Mental Health is Associated with High-Grade Complications after Radical Cystectomy," by Pranav Sharma, Carl H. Henriksen, Kamran Zargar-Shoshtari, Ren Xin, Michael A. Poch, Julio M. Pow-Sang, Wade J. Sexton, Philippe E. Spiess, and Scott M. Gilbert, *The Journal of Urology*, Volume 195, Issue 1 (January 2016)

Provided by Elsevier

APA citation: Mental health status prior to bladder cancer surgery can indicate risk of complications (2015, December 17) retrieved 11 October 2022 from <https://medicalxpress.com/news/2015-12-mental-health-status-prior-bladder.html>

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