

# p<sup>53</sup> protein in serum and urine samples of patients with bladder transitional cell carcinoma and its overexpression in tumoral tissue.

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**Abstract:** INTRODUCTION: The aim of this study was to evaluate the levels of p<sup>53</sup> protein in serum and urine samples of patients with bladder transitional cell carcinoma (TCC) and their relation with the overexpression of p<sup>53</sup> in the tumoral tissue.

**MATERIALS AND METHODS:** A total of ۳۹ patients with bladder TCC were evaluated for p<sup>53</sup> protein in their serum and urine samples and the overexpression of this marker in their tumoral tissue.

**RESULTS:** Of ۳۹ patients with bladder TCC, ۲۹ (۷۴,۴%) had tissue specimens positive for p<sup>53</sup> protein overexpression, ۲۰ (۵۱,۳%) had p<sup>53</sup> protein in their serum samples, and ۲۷ (۶۹,۲%) had this protein in their urine samples. A positive immunohistochemical finding was more common in higher grades of the bladder tumor (P = .۰۳), but not in higher stages (P = .۰۷). Eighteen of ۲۰ patients (۹۰%) with a positive serum for p<sup>53</sup> showed protein overexpression in the tumoral tissue of the bladder (P = .۰۳). Of ۲۷ patients with a positive urine sample, ۲۰ (۹۲,۶%) had p<sup>53</sup> overexpression in their bladder tissue, and of the remainder ۱۷ patients with a negative p<sup>53</sup> protein in their urine samples, ۸ (۴۷,۷%) had no evidence of p<sup>53</sup> protein overexpression in their tumoral tissue (P < .۰۰۱). The grade and stage of tumor had no correlation with serum or urinary p<sup>53</sup>.

**CONCLUSION:** According to our findings, a positive serum or urine sample for p<sup>53</sup> protein is highly associated with the overexpression of p<sup>53</sup> protein in the tumoral tissue of patients with bladder TCC.

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