

## Detection of PRL-3 protein in the preoperative serum of patients with colorectal cancer

Pryczynicz A.<sup>1\*</sup>, Dymicka-Piekarska V.<sup>2</sup>, Niewiarowska K<sup>1</sup>, Gryko M.<sup>3</sup>, Niksa M.<sup>1</sup>, Hawryluk M.<sup>1</sup>, Kemonia A.<sup>1</sup>, Famulski W.<sup>4</sup>

<sup>1</sup> Department of General Pathomorphology, Medical University of Bialystok, Poland

<sup>2</sup> Department of Clinical Laboratory Diagnostics, Medical University of Bialystok, Poland

<sup>3</sup> 2nd Department of General and Gastroenterological Surgery, Medical University of Bialystok, Poland

<sup>4</sup> Department of Medical Pathomorphology, Medical University of Bialystok, Poland

### ABSTRACT

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**Purpose:** The aim of study was to detect PRL-3 protein in sera of patients with colorectal cancer.

**Methods:** The study group consisted of 22 patients with colorectal carcinoma and 10 healthy controls. The serum concentration of PRL-3 protein was evaluated by the ELISA method.

**Results:** In the study group with colorectal cancer, the level of PRL-3 protein in preoperative sera was negative (<0.115ng/ml) in 7 cases while the mean value of PRL-3 concentration was 0.616ng/ml (range 0.206-2.072ng/ml) in 15 patients. No

statistically significant differences between the study group and healthy controls were observed. Our data showed that increase in level of PRL-3 protein in sera of patients with colorectal cancer is associated with greater tumor size ( $p<0.05$ ).

**Conclusions:** PRL-3 protein was found to be present in sera of patients with colorectal cancer. However, our study indicates lack of clinical usefulness of determining the levels of PRL-3 in the sera of patients with colorectal cancer.

**Key words:** colorectal cancer, PRL-3, serum.

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