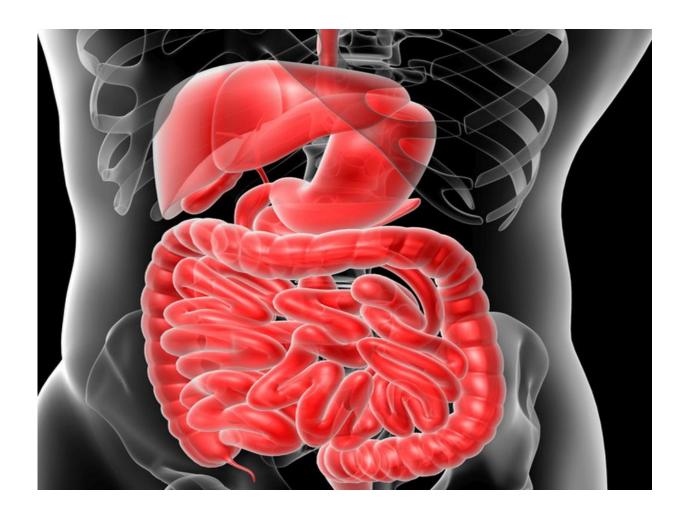


Protein expression predicts rectal cancer outcomes

April 4 2017



(HealthDay)—Loss of E-cadherin protein expression in the



pretherapeutic biopsy of rectal cancer is associated with fewer metastases and improved survival, according to a study published online March 25 in the *Journal of Digestive Diseases*.

Jonas Jessberger, from the Friedrich-Alexander-Universität Erlangen-Nürnberg in Germany, and colleagues evaluated 223 patients with <u>rectal</u> <u>cancer</u> treated with neoadjuvant radiochemotherapy followed by surgery. Protein expression of E-cadherin and <u>tumor</u> growth pattern (solid-glandular versus single-cell pattern) were assessed using 88 biopsies prior to radiochemotherapy and 213 tumor resections.

The researchers observed a significant decrease of E-cadherin expression (P = 0.002) and a significant increased single-cell growth (P = 0.001) at the invasion front in tumor samples after radiochemotherapy versus primary biopsies of the tumor. Longer metastasis-free survival (P = 0.033) and tumor-specific survival (P = 0.030) were associated with low E-cadherin expression in the biopsy. Single-cell growth at the tumor invasion front was a prognostic factor for longer tumor-specific survival (P = 0.021) after radiochemotherapy. Tumor-specific survival was independently predicted using a combination of growth pattern and the Dworak regression grade (P = 0.015).

"A combination of growth pattern and tumor regression score (RegPat-Score) showed the highest discriminatory power to identify high-risk patients," the authors writes.

More information: Abstract

Full Text (subscription or payment may be required)

Copyright © 2017 HealthDay. All rights reserved.

Citation: Protein expression predicts rectal cancer outcomes (2017, April 4) retrieved 6 May



2024 from https://medicalxpress.com/news/2017-04-protein-rectal-cancer-outcomes.html

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.