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LETTER TO THE EDITOR

LIST DO REDAKCJI

BARIATRIC SURGERY: A MODERN METHOD REDUCING THE RISK OF

CANCER DEVELOPMENT

CHIRURGIA BARIATRYCZNA: NOWOCZESNA METODA ZMNIEJSZAJĄCA
RYZYKO ROZWOJU NOWOTWORU

 $\label{eq:Aneta Jerzak} \textbf{Aneta Jerzak}^{1(A,B,C,D,E,F)}, \textbf{Katarzyna Jakubowska}^{1(A,B,C,D,E,F)}, \textbf{Aleksandra Janocha}^{2(A,B,C,D,E,F)}, \\ \textbf{Pawel Ziemba}^{2(A,B,C,D,E,F)}$

¹Ludwik Rydygier Specialist Hospital in Kraków, Poland ²Independent Public Healthcare Center number 1 in Rzeszów, Poland

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Address for correspondence / Adres korespondencyjny: Aneta Jerzak, Ludwik Rydygier Specialist Hospital in Kraków, os. Złotej Jesieni 1, 31-826 Kraków, Poland, e-mail: aneta.jerzak1@gmail.com, phone: +48 518655640

ORCID: Aneta Jerzak https://orcid.org/0009-0004-4658-2146, Katarzyna Jakubowska https://orcid.org/0009-0003-4719-5802, Aleksandra Janocha https://orcid.org/0000-0002-1350-991X, Paweł Ziemba https://orcid.org/0000-0003-0459-0100

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grubego, otyłość, nowotwory

Dear Editor,

Recently, we have encountered a fascinating article written by Davey et al. [1] that

investigated the potential colorectal cancer prevention effects of bariatric surgery. We

consider this topic to be extremely important to both individuals with obesity and doctors,

because more frequent qualifications for bariatric surgery will not only contribute to weight

loss but also reduce the risk of cancer development.

Obesity is a chronic, recurrent and progressive disease. It is estimated that the global

incidence of obesity has tripled since 1975, and more than two-thirds of the U.S. population is

overweight [2].

The association between obesity and oncologic risk has been described for many

years, although poorly confirmed in molecular interactions. Unhealthy lifestyle, low physical

activity, reduced dietary fiber intake, and food processing are known to be major independent

risk factors for both obesity and cancer development. Obesity with related comorbidities are

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responsible for at least 40% of all the newly diagnosed cancers (as colon, uterine, breast,

pancreatic, and esophageal cancer) [3].

Bariatric surgery leads to sustained weight loss with appropriate preoperative care,

low-calorie diet and lifelong follow-up. Indications for bariatric surgery after the exhaustion

of conservative treatment modalities are BMI $\geq 40 \text{ kg/m}^2$ or BMI $\geq 35 \text{kg/m}^2$ with the obesity-

associated comorbidities. The most popular bariatric surgeries include sleeve gastrectomy and

Roux-en-Y gastric bypass [4].

In the meta-analysis conducted by Davey et al. [1], it was confirmed that bariatric

surgery significantly protects against the occurrence of colorectal cancer in individuals with

obesity. During five years of follow-up, colorectal cancer developed in 0.6% of the patients

undergoing bariatric surgery and in 1.0% of the obese patients not undergoing the surgery [1].

Additionally, the authors of the study did not find any difference when comparing Roux-en-Y

gastric bypass and sleeve gastrectomy [1].

These findings illustrate the benefits of bariatric surgery including not only the visual,

psychological, and social aspects for the patient related to weight loss, but also reducing the

risk of high-mortality cancers. Furthermore, the results underscore the need for further

education of healthcare professionals working with individuals with obesity to remember

about the wide range of treatment options, including lifestyle changes and pharmacotherapy

as well as bariatric surgery. Bariatric surgery offers the greatest weight loss potential, with an

average weight loss of 25%, providing a significant reduction in the overall risk of developing

cancer after interventional surgery.

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