

of quality of life and to improve social and emotional function not only in the bosom of family but also outside the family.

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Intoxication and oxygen status parameters correlation of the colorectal cancer patients

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Even early staged malignant tumors cause common disorders with endogenous intoxication syndrome (EIS) and different staged respiratory disorders. It's quite known that EIS develops hemostasis and hemodynamic disorders with decreasing of the oxygen transportation to the tissues, cell energy metabolism damage, and as a consequence, to the tissue hypoxia and metabolic acidosis. Undoubtedly, all of these pathological processes make prognosis of these patients treatment to be worse. That's why it's considerable to reveal and make stratification of the EIS and respiratory disorders to make an adequate treatment of these patients in proper time. Nowadays, integralhematologicalindexesareusefulforhistask.

Purpose of the research: to reveal a correlation between hematological indexes of the intoxication and respiratory disorders by colorectal cancer patients in preoperative period.

Materials and methods: Seventy-three colorectal T3-T4 cancer patients (37 (50,7%) male and 36 (49,3%) female) were studied in 2010 – 2013 period years at Amur regional clinical hospital. An average age was 61 years (95% from 59 till 63 years). Every patient passed through investigation of the blood with hematological indexes calculation before the surgery: leukocyte intoxication index (LII, Kalf-Kalif's index), modified leukocyte intoxication index (LIIm, Ostrovskiy's index), hematological intoxication index (HII, Vasilyev's index). Moreover, we analyzed arterial and venous blood gas content with calculation of the common oxygen metabolism indexes in all cases. Hemodynamic indexes calculated by Starr's formula (1954) in modification by Zabolotskikh (2002). Statistical analysis was performed with the help of the MS Office Excel 2007 and SPSS Statistics 17.0.

Results and its discussion: All patients were divided into 2 groups after the investigation: I group – patients with increased indexes of intoxication (n=43), II group – intoxication indexes were in normal range (n=30). Statistically correlated distinction of the white blood cells, erythrocytes, hemoglobin, colour index and erythrocyte sedimentation rate was found in both group patients. The I group patients had more expressed respiratory disorders: reduction of the arterial blood oxygen ($14,6 \pm 2,5$ ml/dl – I group and $15,9 \pm 2,6$ ml/dl – II group), increasing of the tissue oxygen consumption ($164,4 \pm 74,5$ ml/min/m² and $144,1 \pm 70,57$ ml/min/m² correspondingly), more expressed arterial and venous blood hypoxemia and increased level of the oxygen utilization coefficient ($51,9 \pm 13,4\%$ – I group and $41,9 \pm 15,9\%$ – II group). We didn't find any correlation between intoxication and oxygen status indexes at second group patients. Patients of the first group had moderate feedback between LII and CaO₂ ($-0,333$, $p=0,031$), VQ ($-0,352$, $p=0,022$); evident negative binding with VO₂ ($-0,438$, $p=0,004$), oxygen utilization coefficient ($-0,560$, $p<0,001$). Either we found moderate negative binding with the erythrocytes, hemoglobin, colour index levels and erythrocyte sedimentation rate.

Conclusion: Intoxication indexes could be useful to reveal respiratory disorders in cases of the complicated by EIS colorectal cancer.

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Social-hygienic aspects of a food of school students from Blagoveshchensk

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Key words: nutrition of schoolchildren, state of health, physical development.

The state of health of the child isn't indifferent neither for a family, nor for society as a whole. The base of health is put in the childhood, and health of the person, as we know, depends on 50% from a way of life, 25% from environment, 15% from hereditary programs, 10% from medicine opportunities.

Priority problem of society and the state is preservation and strengthening of health of younger generation (Baranov A.A.). The number of healthy children and teenagers decreases, their share on different regions fluctuates from 4 to 20%.

Unfortunately, the number of healthy children in our country improved in recent years what the speaker at the I National congress of doctors of Russia, passed mentions on October 5, 2012. The number of healthy children and teenagers decreases, their share on different regions fluctuates from 4 to 20% (Shcheplyagina L.A.)

Conditions of educational process have impact on the psycho emotional sphere, to 80% of children of beginners the «a school experience» are subjected to a stress. All this leads to