

стійкий ізотоп ^{222}Rn має період напіврозпаду 3,8 діб., другий по стійкості - ^{220}Rn (торон) - 55,6 с.

Ізотоп ^{222}Rn дає приблизно 50-55% дози опромінення, що щорічно отримує кожний житель Землі, ізотоп ^{220}Rn додає до цього ще ~ 5-10%. Однак дослідження показали, що в скремих місцевостях радонове опромінення в багато разів і навіть на кілька порядків може перевищувати середні величини.

Джерелами надходження ^{222}Rn в атмосферне повітря є рослини і ґрунтові води та природний газ (близько 100 ТБк/рік). Концентрація радону в приміщеннях у 4-6 разів вища, ніж в атмосферному повітрі. Радіоактивність підвального повітря в 8-25 разів вища радіоактивності атмосферного повітря.

Мета роботи: дослідити концентрацію радону в приміщеннях житлового фонду Полтавської області.

В роботі проведений статистичний аналіз матеріалів Полтавської обласної СЕС. Дослідження проведені Полтавською обласною санітарно - епідеміологічною станцією - приладом «Альфа – кварт». В ході проведеного аналізу встановлено, що середньорічна еквівалентна рівноважна концентрація радону в житлових приміщеннях будинків, що будуються, а також в існуючих будівлях не перевищувала контрольних рівнів згідно НРБУ-97.

MICROBIOLOGICAL STATUS INDEXES ASYMMETRY INPRACTICALLY HEALTHY PEOPLE

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As it is known, asymmetry nowadays is considered to be common biological law. There are morphological, biochemical, functional asymmetries. While topical scientific literature analyzing we met data about asymmetry on Chemistry, Biochemistry, Physiology, Pharmacology, Immunology. For example, there exists functional asymmetry in oral cavity (M. Geisler, J. Nadeau, F. Sack, 2000), particularly in salivary glands. There is immune response asymmetry (J. Gruzeiler, A. Clow, P. Evans, 1998). As it is known, oral cavity is considered to be very powerful analyzer and it is called somato-sensor analyzer. That's why it reacts on different stimuli rather quickly. And because of the same reason there is both of nervous and humoral regulative mechanisms influence on oral cavity functioning. There are multiple data according to nervous and humoral system asymmetry in human body (V. Jendrossek, I. Muller, H. Eibl, 2003). At the same time data about organism microbiological state asymmetry is practically absent in scientific literature.

Taking into account all the mentioned above our present scientific work aim was to determine asymmetry presence or absence in microorganisms microbic number in oral cavity of 10 practically healthy students of UMDA (both men and women) the age of which was 19-23 years. Material was taken between central and lateral inferior incisors on the left and on the right. We determined colony-forming units (CFU) amount in a gingival liquid by drinking-water inoculation method for IST 2874-82/99. Sampling for bacteriological research was carried out by a sterile standard disk from a filtration papers, which were saturated with a gingival liquid in the intact tooth area and brought in

a test tube with physiological solution (1.1 ml). One shakes up them carefully in course of 10 seconds and 0.1 ml of solution was then carried in a next test tube with 1 ml of physiological solution. Thus, ten-timed consequent material solubilization has been performed, after which test tube content was brought in a sterile Petri plates and inoculated to saccharine MPA (8 ml). Cups with cultures were incubating in course of 24 hours in a thermostate at 37°C.

As results have demonstrated, there was right-left asymmetry in microbic number. Moreover, as separate protocols results analyzing demonstrated, in one people's group index estimated was dominant on the right, in second – on the left, in third one – microbic number was practically symmetrical on the right and on the left. Asymmetry is considered to be significant adaptation factor to changeable and pathological conditions. May be such people with symmetrical microbic number on the right and on the left have increased risk to different disorders in oral cavity. So, we can hope that our scientific research will have not only theoretical but also practical importance. As asymmetry determinative mechanisms we can suppose nervous, humoral and cellular: different immune response intensity, various cellular receptors expressions degree, unequal environmental factors for microorganisms existence i.e. temperature, humidity, enzymatic activity from the both sides. Thus, such mechanisms can be both local and general though may be local one will be more expressed in our case. Probably, dominant extremity (at the investigation time) also has any significance in reaction type (right or left one) determining. It is not excluded that ambidexes have symmetrical microbic status on the right and on the left.

LEFT-HANDEDNESS NEW ASPECTS AND THEIR POSSIBLE USAGE IN THEORETICAL AND PRACTICAL MEDICINE DIFFERENT BRANCHES

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As it is known, family doctors place in medical care is greatly increased nowadays not only abroad but also in Ukraine. It is beyond compare, that family doctor should know all medical disciplines. He must take into account his patients' life all circumstances beginning from their birth up to their death. Patients' individual interhemispheric asymmetry prophile is among such circumstances. Left-handedness reflects this prophile at alive matter organization populational level and is a proper, convenient and often it's only assessment method. Students population is a very numerous. Moreover, interhemispheric prophile influences greatly on human beings study ways and effectiveness. Such data are essential particularly in Paediatry, Logopedy, for parents and family doctors too. Left-handedness, according to modern literary data, has many individual profiles comparatively to right-handedness which has only one profile. Till now practically all scientific works dealt with left-handedness were connected with brain hemispheres, extremities and sensory organs asymmetry but not blood system asymmetry. Blood is so-called all organismic physiological and pathological processes mirror and blood investigation gives the most diagnostically valuable information. Capillary blood allows to tell about organism state being taken in a very little amount and practically without patient' tissues injure. Erythrocytes are the biggest cellular blood population that's why their state can predict many organism changings.