

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 existance 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 delt 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.

That's why our present work aim was to study individual blood asymmetry profile in students-volunteers (35, women and men, 19-29 years) in UMDA. We assess individual interhemispheric profile while standard methodics usage: dominant extremity (at the investigation method), dominant finger, dominant eye, Napoleon's pose, applauding, anamnesis (left-handedness existence among investigated people relatives). Erythrocytes morpho-functional indexes (red blood cells amount, haemoglobine level, Theological and haemocoagulation properties) were also estimated according to standard methodics.

We divided all investigated people into 3 groups: real left-handed people, latent (hidden) left-handed people (according to Drozdovskaya A.A., 2002) and ambidexes.

Real left-handed people have "left" type of all investigated indexes; in latent left-handed people and ambidexes - one indexes part was on "right", other - on "left" type and in ambidexes asymmetry degree was insignificant.

In all observed cases dominant role in reaction type determining had dominant extremity (at the investigation moment) and left-handedness existence in anamnesis; dominant finger, dominant eye, Napoleon's pose and applauding probe results had additional role.

Our present work novelty is in following: we were the first who assessed erythrocytes morpho-functional individual asymmetry profile with "right", "left" and "mixed" blood reactions types differentiation.

May be, our work will improve possibilities in our students study and allow to use different teaching approaches for right-handed people, real and latent left-handed people and ambidexes. Also may be this investigation will be useful in Logopedy and Paediatry and simply for children bringing up and study.