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BEING A LEFT-HANDER IN THE WORLD OF THE RIGHT-HANDERS

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It is interesting that some countries have so big left-handers' distribution in our right-handed world – 95-98% in the USA and Japan; there are multiple researches about sinistrality rate varieties in different countries while emphasizing the cultural impacts for example in French and Tunisian children [1]; lefties are considered to be more successful in one-on-one sports because they possess advantage [2]; there are the data on handedness polymorphism maintenance in humans by a frequency-dependent selection model [3]. There was found a correlation between birthplace diversity and economic prosperity [4], ethnic diversity and economic performance [5] as well as there is a significant question and sometimes problem of comfortable professional activity of left-handed people in the world created for the right-handers and they say about economic consequences of being left-handed people [6]. There are works on socio-economic status and handedness in part in France in the adults [7], in an urban population in Uzbekistan [8] even about relations between handedness and capital accumulation [9].

The question about left-handedness inheritance is still on discussion [10]. There are points of consideration concerning to environmental influences on hand preference for example made by African scientists [11]. Forced dextrality can be thought as contributing factor in sinistrality prevalence decrease in part with age as it has been demonstrated by the English in Northern England [12].

There exists the link between higher order cognitive functions and handedness [13], there are the differences in divergent thinking as a function of handedness and sex [14].

Left-handers change more easily their hand-use than right-handers do [15] and it is known that such changes are not good for study, health, brain functioning (manual skills, speech in part). When grasping the tool, younger infants are more influenced by

their hand preference than older infants, who are better at anticipating the most successful strategies [16]. Handedness is studied in twins [17].

Left-handers have their own peculiarities in health: lipoprotein A levels doubling in diabetic patients [18]. They have their own “left” diseases and distinguishing features of other diseases and syndromes course. Dexters get sick more in helminthoses, sinisters – on prothozoonoses [19] by the Turkish scientists’ data. The epilepsy start age is earlier for the left-handers, electroencephalography patterns do not depend on the beginning age, febrile states, the disease presence in the family, sinistrality and other factors in them (comparatively to the dexters where these factors are contributive) [20]. Some doctors consider that epilepsy is wider-spread in left-handers than in right-handers [21]. Intellectual disability in children is considered to be connected to the sinistrality [22] and dyslexias as well though some scientists consider it only as special way of the people’s reading [23]. Some scientists consider that apraxy (impossible skills development) is delt to sinistrality while the others link its hardness with dexterity on the contrary [24]. Opinions as for trisomy 21 are also not one-digit. Some scientists think that its distribution is bigger in the left-handers [25; 26], while the others – in the right-handers [27; 28]. Other chromosomal aberrations are also thought to be more distributed in the left-handers comparatively to the right-handers [29]. Autism can be described as a disease of left-handers [30] together with prozopagnosies (faces disordered recognition) [31], mirror writing (English scientists study this phenomenon much) [32].

We performed many researches concerning to physiological systems functioning dependence on sinistrality and its type [33], in Psychology, Pedagogy [34], Dentistry [35] while emphasizing about interhemispherical asymmetry individual profile indices applied significance [36], necessity to study sinistrality in a complex with other typological aspects [37].

Even this brief literary review emphasizes excessive time the essentiality to sinistrality multi-facetated study in various countries by the specialists belonging to the Science different branches.

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