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Epidemiological characterization of brain disorders served in the physical therapy services

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Introduction: The Brain Disorders are important pathologies for the implications for the independence, functionality, and elements of relationship of the persons, and for this reasons this entities have impacts in the quality of life levels. The etiology of the Brain Disorders have relationship with elements traumatic, degeneratives, and the life styles in the population. To know the epidemiological characteristics of brain disorders served in the physical therapy is important for have one panoramic of this problems in the population and to establish actions of prevention and treatment with efficiency, efficacy and opportunity for the control of the brain disorders

Methodology: This investigation is a cross sectional study and the study population was the patients served in the Physical Therapy Services over 15 years old in the places where exist clinical practices of the Physical Therapy Program of the Manuela Beltrán University for neurological diseases and in special for brain disorders, in the period of time of February and November of the year 2012. The mechanism of selection of study population was census. The analysis of results have epidemiological measures of frequency and for establish differences in the prevalences of brain disorders for the gender was calculated one test of Chi Square with one level of freedom, $p < 0.05$ confidence interval to 95%.

Results: 1062 persons over 15 year old was served in the physical therapy services for neurological diseases. 38.41% of the persons with neurological diseases was cases of stroke ($n=408$, Standard Error=0.01), 53.92% of the persons with stroke was of female gender ($n=220$, Standard Error=0.02) ($X^2=0.002$ $p>0.05$, O.R. 1.00 C.I. 95% 0.82 – 1.20). The stroke was the first neurological pathology served in the neurological diseases and was the first disease in the brain disorders served in the Physical Therapy Services, after stroke the second brain disorders was the Alzheimer Disease 19.67% ($n=209$, Standard Error=0.02) of persons with neurological disease was have this problem. 77.51% of the persons with Alzheimer Disease was of the female gender ($n=162$, Standard Error=0.01, $X^2=49.76$, $p<0.05$, O.R. 3.11, C.I. 95% 2.27 – 4.11) 8.00% ($n=85$, Standard Error=0.03) the persons with neurological diseases was have brain injury 72.94% of the persons with brain injury was of male gender ($X^2=24.98$, $p<0.05$, O.R. 3.21, C.I. 95% 2.07 – 4.90)

Conclusion: The brain disorders are important diseases in the neurological pathologies and the first entity is the stroke and the second place is the Alzheimer disease, and this problems are more frequently in the female gender

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