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**THE ANALYSIS OF PRIMARY DISABILITY STRUCTURE OF POPULATION  
OF FERGANA REGION**

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**Matkhoshimov Nodirjon Soyibjonovich**

**Axmadaliyev Rustamjon Umaraliyevich**

*Ferghana medical institute of public health*

**ABSTRACT**

This article analyzed the structure of primary disability of the population in Fergana region. The research work drew special attention to the main causes of primary disabilities by places of residence, age and gender groups. The main causes of disabilities have been explored by classes of diseases.

**Key words**

disability, level, specific position, the analysis of the classes of diseases, dynamics, structure.

**Introduction:** The actuality of the problem of disability and disabled people is determined by a large number of people in this category in the social structure of society [1, 3, 4, 7, 8]. According to UN experts, people with disabilities account for 10% of the total population of the Earth [2].

Many researchers have noted, the disability indicator characterizes social ill-being of population, reflects social maturity, economic viability, moral development of society and violation of relationship between disabled person and society [5, 6, 9, 10, 11, 12].

Consequently, the decrease in the population's disability rate in the region can be instrumental in implementing scientifically based approaches to the study and identification of removable causes of primary disability. In turn, this can serve as the basis for the formation of targeted regional programs with an impact on the most important factors determining the level of health status, including the specific causes of disability.

Thus, this issue is one of the main characteristics of the country's public health and social well-being. Therefore, studying disability of the population is important and actual.

All of the above determined the research and its purpose.

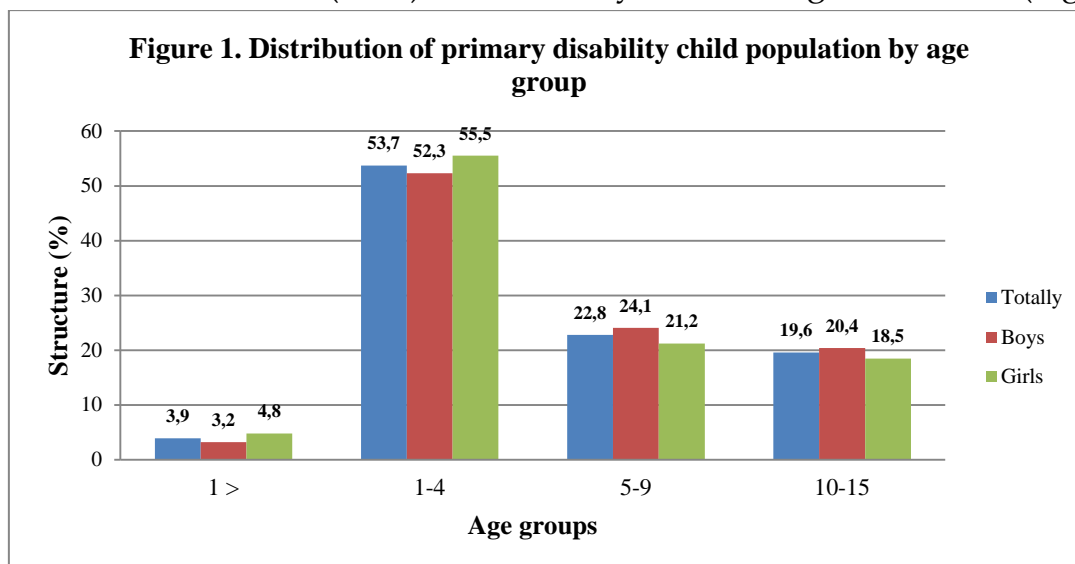
**The aim of the research is** to study the structure of primary disability in Fergana region.

**Materials and research methods.** The object of the research is a set of newly recognized disabled people in Fergana area.

The study is continuous. The materials for the study was the official statistical data of the Republican Inspectorate of Medical and Social Expertise under the Ministry of Healthcare and the reports of the State Statistics Committee of the Republic of Uzbekistan.

The observation unit is the first recognized disabled child, disabled person of employable age and disabled person of retirement age.

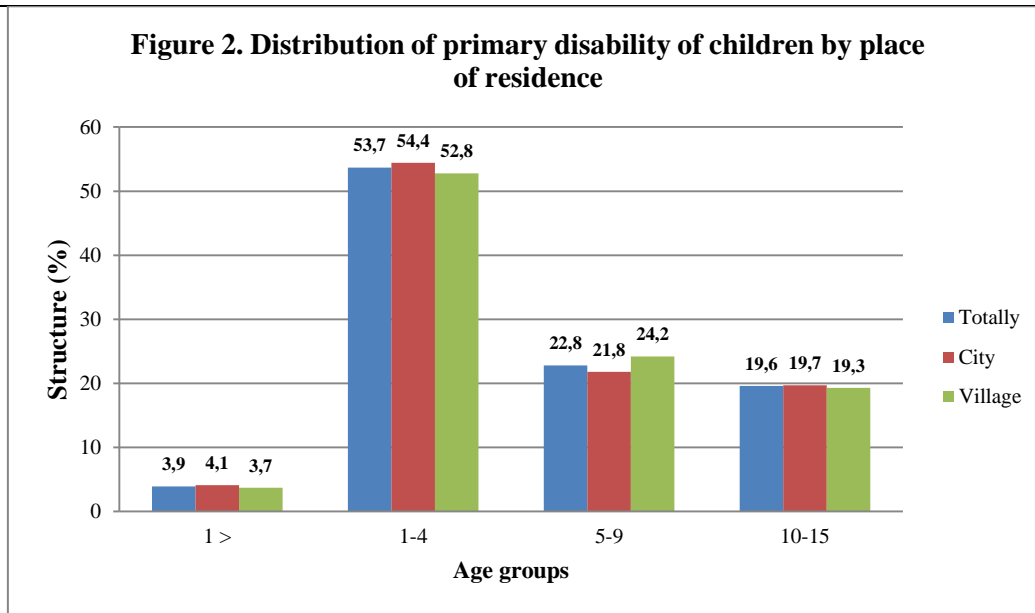
**Results and discussion.** The distribution of primary disability by age groups of childhood contingent observed as follows: the highest proportion is observed in the age groups of 1-4 - 1018 (53.7%) boys are 52.3% and girls are 55.5%; second position is children in the age of 5-9 - 440 (22.8%), boys are 24.1% and girls are 21.2%; children in the age of 10-15 - 378 (19.6%), boys are 20.4% and girls are 18.5% and children under 1 - 76 (3.9%) 3.2% are boys 3.2% and girls are 4.8% (Figure 1).



The presented data indicates, in the structure of Primary Recognized Disabled (PRD), the highest specific position is observed in the age group of 1-4 - 53.7% (boys 52.3% and girls 55.5%); the second place is children in the age of 5-9 - 22.8% (boys 24.1% and girls 21.2%); children aged 10-15 - 19.6% (boys 20.4% and girls 18.5%) and next t children under 1 3.9% (boys 3.2% and girls 4.8%).

It should be noted that in each age group, the difference between the indicators of boys and girls has not been observed.

This case is also characteristic of child population by place of residence (urban and rural areas) in Fergana region (Figure 2).



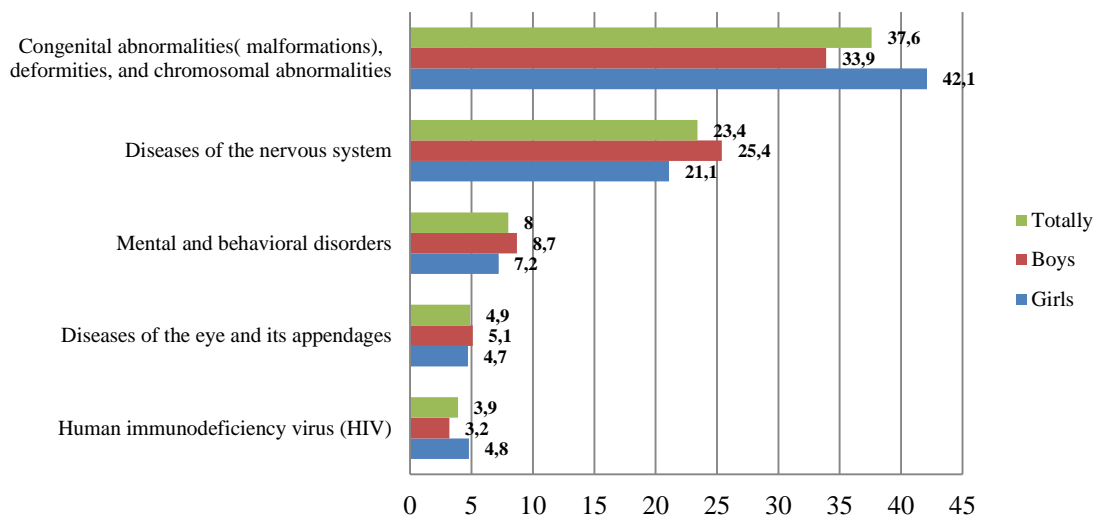
The analysis of the distribution of disabled people by classes of diseases, which caused to disability arose particular interest.

The analysis of the proportion of children with disabilities in 2017 showed, disability is a problem for this population, especially for 5 classes of diseases, with high proportion of children with disabilities makes up 1,506 (77.8%) for all reasons.

The contingents ranking of disabled people caused by various classes of diseases for 2017 showed: the first rank is congenital anomalies (malformations), deformations and chromosomal abnormalities -727 (37.6%), the second rank are the diseases of nervous system- 453 (23.4% ), the third position are mental and behavioral disorders - 155 (8.0%), fourth position are the diseases of eyes and its appendages- 95 (4.9%), in fifth position is - HIV (Human Immunodeficiency Virus), 76 (3.9%).

The analysis of the distribution of disabled people by class of diseases, which caused to disability, shows the insignificant difference between the indicators of boys and girls (Figure 3).

**Figure 3. Distribution of disabilities in children by classes of diseases and the causes of disabilities**



As mentioned above, congenital malformations (malformations), deformations and chromosomal abnormalities were 727 (37.6%); 52 (7.2%) the infants under age 1, children between the ages of 1-4 are 498 (68.5%), children between the ages of 5-9 are 102 (14.0%), and children between the ages of 10-15 are 75 (10.3%).

Nervous system diseases are 453 (23.4%); infants under 1 made up 10 (2.2%), children between the ages of 1-4 are 288 (63.6%), children between the ages of 5-9 are 102 (22.5%) and children between the ages of 10-15 are 53 (11.7%).

Mental illness and behavioral disorders were only 155 (8.0%); infants under are 3 (1.9%), children aged 1-4 are 28 (18.1%), children aged 5-9 are 76 (49.0%) and children between the ages of 10-15 are 48 (31.0%).

The analysis of the distribution of disabled people by classes of diseases and their causes shows that the largest first and third ranking positions were congenital anomalies (malformations), deformations and chromosomal abnormalities, and the diseases of nervous system, the largest share was children of 1-4 age groups, 68.5% and 63.6%, and the largest share was mental disorders and behavioral disorders, mainly children aged of 5-9 showed 49%.

The distribution of primary disability by age groups of employable age population is as follows: the number of primary disabled people in the age group of 15-16 was 562 people (14.0%); in the age group of 17-19 was 70 people (1.7%); in the age group of 20-24 was people 173 (4.3%); in the age group of 25-29 was 280 people (7.0%); in the age group of 30-34 was 380 people (9.5%); in the age group of 35-39 was 410 people (10.2%); in the age group of 40-44 was 446 people (11.1%); in the age group of 45-49 was 501 people (12.6%); in the age group of 50-54 was 652 people (16.2%); in the age group of 55-59 was 539 people (13.4%) (Figure 4).

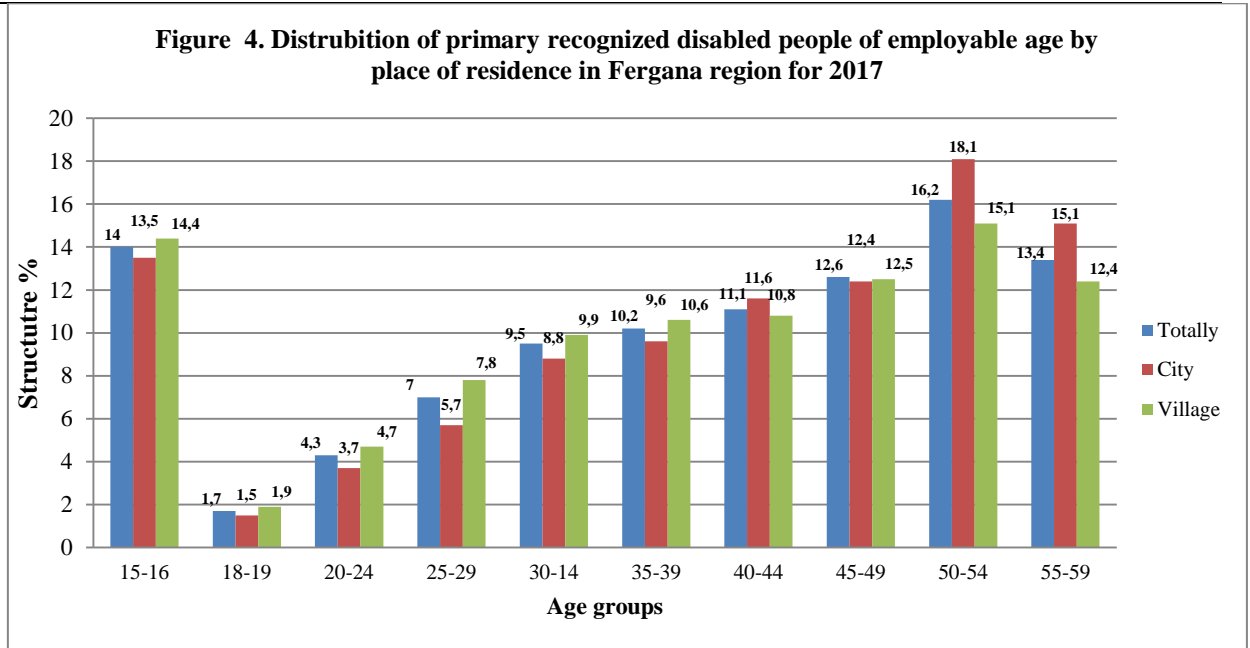
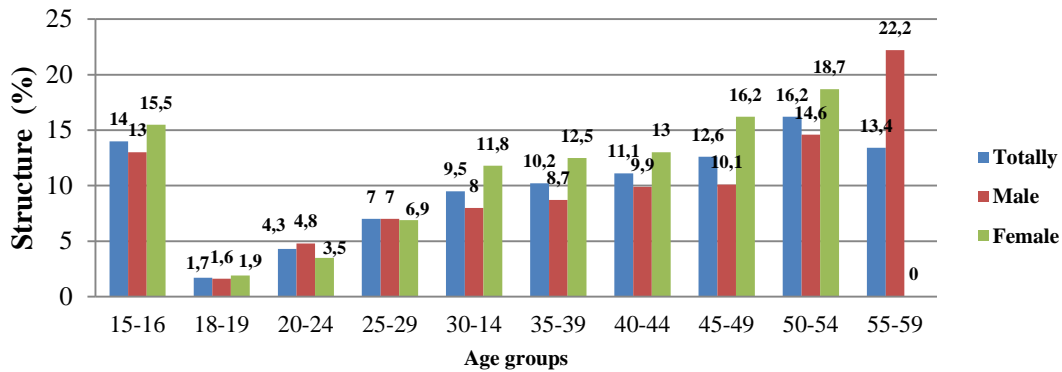


Figure 4 shows, in the age group of 16-17, the number of primary disabled people among the whole employable population was 562 people (14.0%), and in subsequent age group of 18-19 we can see a sharp decrease in the proportion of primary disability 70 people (1.7%). In our opinion, an increase in the proportion of disabilities in the age group of 16-17 may be due to the prevalence of subjective factors, because disabled children under 15 receive benefits according to disability groups. The disability groups are taken into account from the age 16 for receiving benefits.

Thus, the appeal to medical re-examination is sharply increased between children in the age of 16-17 for receiving disability benefit by levels.

Consequently, in the age period of 18-19, the proportion of people with disabilities sharply decreased, as the majority of the population of this age group had already undergone medical re-examination for disability when they were 16-17, and in subsequent age groups up to 50-54 the extensive indicator of disability gradually tends to increase (Figure 5).

**Figure 5. Distribution of primary recognized disabled people by age and gender in Fergana region for 2017**



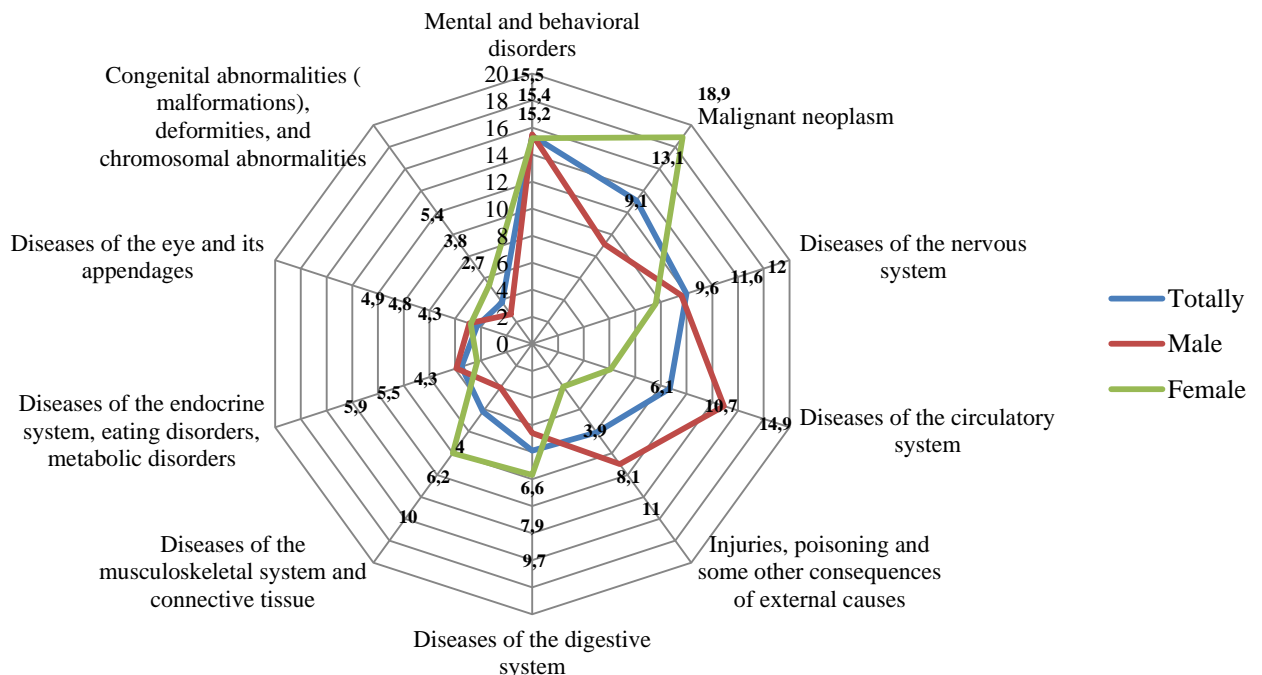
The highest proportion of primary disability among employed population is the disabled people aged 50-54 and 55-59, correspondingly 16.2% and 13.4%. This may be explained by the intend to get disability benefit according to the disability levels on the eve of retirement age.

It should be noted, this objective law is also characteristic of the population by place of residence (urban and rural areas) and gender characteristics of the population in Fergana region.

The analysis of the distribution of disabled people by classes of diseases and the causes of disabilities have been of particular interest.

The structure of primary disability of employable age in Fergana region for 2017 was studied (Figure 6).

**Figure 6. Structure of primary disability in the people of retirement age by classes of diseases for 2017 in terms of ranking position (%)**





The first ranking position is the diseases of mental and behavioral disorders - 15.4%, in the second ranking order is disabled people with malignant neoplasms - 13.1%. Then the third ranking order is disabled people with the diseases of nervous system, the specific proportion of which is 12.0%. The fourth rank is disabled people with the diseases of circulatory system and their specific proportion is 10.7%.

The disable people with traumas, poisoning and some other consequences of external factors make up 8.1% and on the 5th rank. The sixth rank is the disabilities caused by digestive diseases: their share is 7.9%.

The diseases of musculoskeletal system and connective tissue showed 6.2%, this contingent is ranked 7th and the eighth rank is disabled people with the diseases of endocrine system, nutritional disorders, metabolic disorders, the specific proportion is 5.5%.

In the ninth rank is disabled people with the diseases of eye and its appendages; their share is 4.5% of the total.

The tenth rank is disable people with congenital malformations (deformities), deformations and chromosomal abnormalities; the specific proportion is 3.8% of the total.

The eleventh rank is disable people with tuberculosis diseases; the specific proportion is 2.8%. The twelfth rank is disabled people with the diseases of genitourinary system, the proportion is 2.7%.

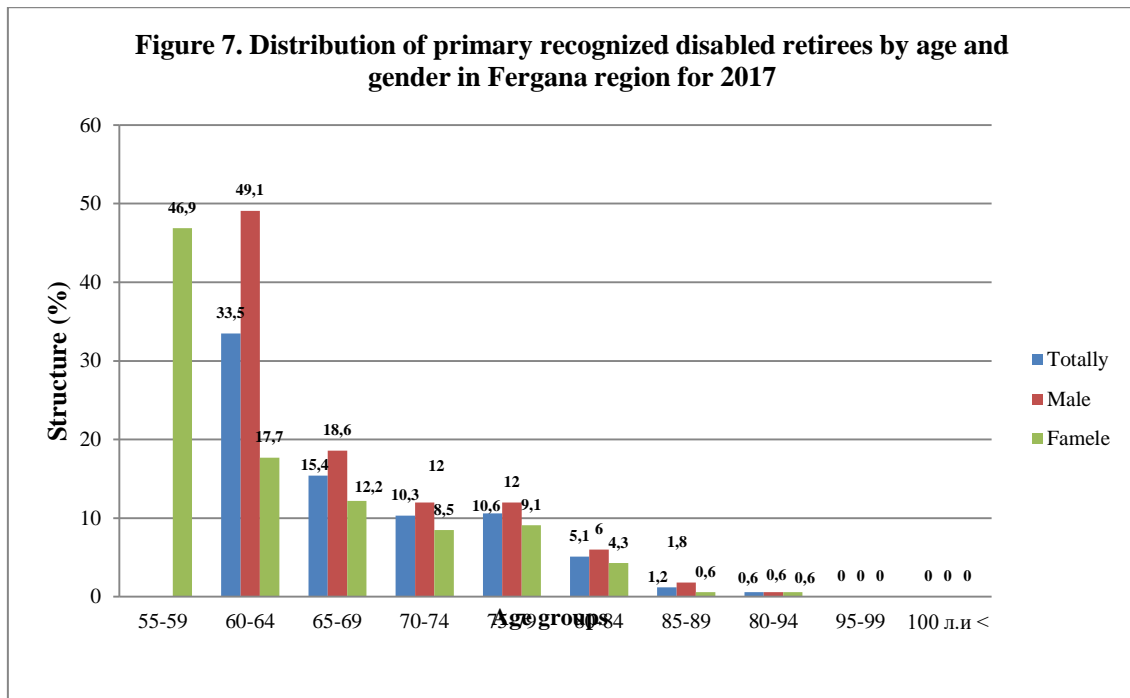
The thirteenth rank is the disable people with respiratory diseases, their specific position is 2.6% and the fourteenth rank place is disable people with the diseases of ear and mastoid process and blood diseases, blood-forming organs and individual disorders, their specific weight is 1.0% of the total.

Among the male disabled people of the employable age, the first rank is the diseases of mental disorders and behavioral disorders - 15.5%, the second position is disabilities caused by circulatory system disease - 14.9%, the third rank is the disable people with the diseases of nervous system: their share is- 11.4%.

Among the female disabled people of the employable age, the first rank is malignant neoplasms - 18.9%, the diseases of mental disorders and behavioral disorders - 15.2%, the diseases of musculoskeletal system and connective tissue - 10.0%.

The distribution of primary disability by retirement age groups is as follows: the highest proportion is observed in the age groups of 60-64 - 111 (33.5%), 82 are men (49.1%) and women are 29 (17.7%); in the second position - women retirees in the age of 55-59 - 77 (46.9%); in the third rank is pensioners in the age of 65-69 - 51 (15.4%), including men 31 (18.6%) and women 20 (12.2%); next pensioners in the

age of 70-74 are 34 (10.3%) men - 20 (12.0%) and women - 14 (8.5%); the pensioners in the age of 75-79 are 35 (10.6%) and men - 20 (12%) and women - 15 (9.1%); the retirees in age of 85-89 are 4 (1.2%), men - 3 (1.8%) and women - 1 (0.6%); the retirees in the age of 85-89 are 4 (1.2%), including men - 3 (1.8%) and women - 1 (0.6%); the pensioners in the age of 90-94 are 2 (0.6%), men - 1 (0.6%) and women - 1 (0.6%). Figure 7.



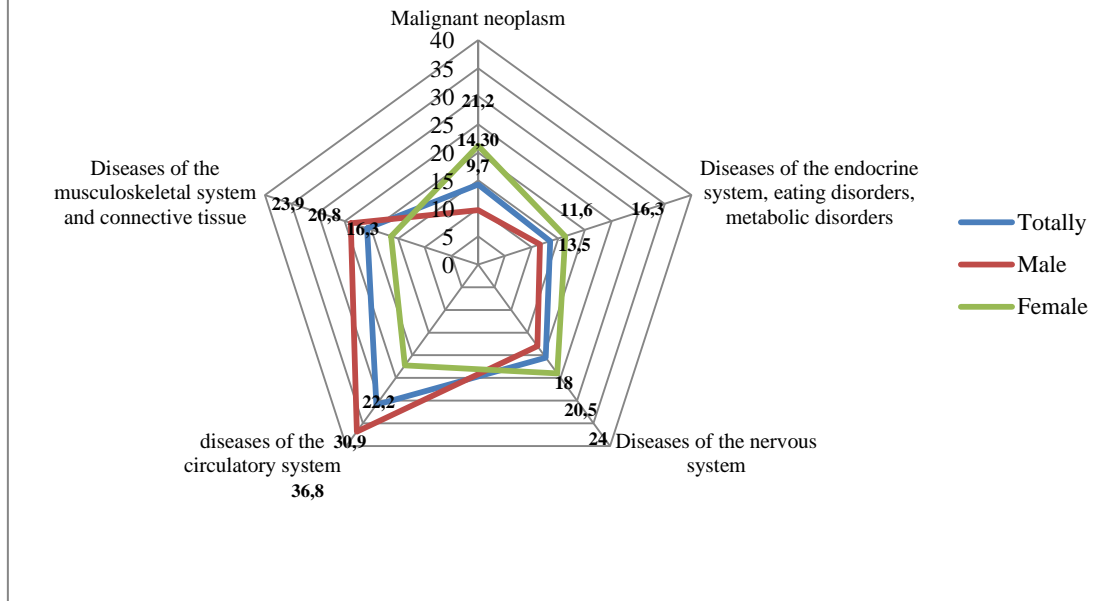
It should be noted that in the age group of pensioners of 95 and older, first recognized disabled people were not observed.

The analysis of the distribution of disabled people by classes of diseases and their causes arose interest.

In the first rank is the diseases of circulatory system - 30.9%; the second position is the disabilities caused by the diseases of the musculoskeletal system and connective tissue - 20.8% and the third position is the disabilities caused by the diseases of nervous system, their specific proportion is 20.5% ; the fourth ranking position is the disabled people with malignant neoplasms - their specific proportion is 14.3%, the fifth place is the diseases of endocrine system, nutritional disorders, metabolic disorders - 13.5% (Figure 8).



Figure 8. Structure of primary disability in the people of retirement age by classes of diseases for 2017 in terms of ranking position (%)



The diagram shows, among the male disabled population of retirement age, the first ranking order is the diseases of circulatory system - 36.8%, the second rank is the diseases of musculoskeletal system and connective tissue - 23.9%, the third ranking order is the disabilities caused by the diseases of nervous system, their specific proportion is 18.0%., the fourth ranking order is the diseases of endocrine system, nutritional disorders, metabolic disorders, their specific proportion is 11.6%, the fifth place is malignant neoplasms - 9.7%.

Among the female disabled population of retirement age, the first ranking order is the diseases of nervous system - 24.0%, the second rank is the disabilities caused by circulatory system disease - 22.4%, the third rank is malignant neoplasms - 21.2%, then the fourth ranking order is the diseases of endocrine system, nutritional disorders, metabolic disorders and diseases of musculoskeletal system and connective tissue, their specific proportion is 16.3% of each.

### Conclusions:

1. The distribution of primary disability by age groups among children is as following: the number of primary disabled people under 1 was 3.9%, in the age group of 1-4, 53.7%, in the age group of 5-9, 22.8% in the age group of 10-15 - 19.6%.

2. The analysis of distribution of disabled children by classes of diseases and their causes showed, the first ranking order is congenital anomalies (malformations), deformations and chromosomal abnormalities - 37.6%, the second ranking order is the diseases of nervous system - 23.4%, third ranking order is mental disorders and behavioral disorders - 8.0%, the fourth rank is the diseases of



eye and its appendages - 4.9%, in fifth rank is HIV (Human Immunodeficiency Virus) 3.9%).

3. It was established that in the age group of 16-17, the number of primary disabled people is 562 people (12.9%), and in the age group of 18-19 we can see a sharp decrease in the proportion of primary disabilities and equals to 70 people (1.6%), in subsequent age groups, gradually increasing to 50-54 years the extensive disability rate reaches 14.9%.

4. The distributional analysis of the disabled people of employable age by classes of diseases and diseases caused to disability showed that more than half of the percent (51.2%) in the structure was the disabilities caused by mental and behavioral disorders, malignant neoplasms, diseases of the circulatory system and nervous system.

5. Primary disability by age groups of retirement age shows that the highest proportion is observed in the age groups of 60-64 - 33.5%, in second position is women pensioners in the age group of 55-59 - 46.9%; in third place are pensioners 65-69 years old - 15.4%; next are the pensioners in the age group of 70-74 - 10.3%; pensioners in the age group of 75-79 - 10.6%; pensioners in the age group of 85-89 - 1.2%; then retirees 85-89 years - 1.2%; pensioners in the age group of 90-94 - 0.6%.

6. Among the first recognized invalids of retirement age, the first rank is the diseases of circulatory system - 30.9%, the second position is the disabilities caused by diseases of musculoskeletal system and connective tissue - 20.8% and the third position is the disabilities caused by the diseases of nervous system, the specific proportion is 20.5%., the fourth rank is disabled people with malignant neoplasms; their specific proportion is 14.3%, the fifth position is the diseases of endocrine system, nutritional disorders, and metabolic disorders 13.5%.

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