CONFERINTA ȘTIINȚIFICĂ ANUALĂ CERCETAREA ÎN BIOMEDICINĂ ȘI SĂNĂTATE: CALITATE, EXCELENȚĂ ȘI PERFORMANȚĂ



STUDY OF SARCOPENIA IN THE CONTEXT OF FRAGILITY SYNDROME IN THE ELDERLY

Popescu Ana, Şoric Gabriela, Lupaşcu-Volentir Felicia, Coşciug Elena, Popa Ana, Stoicova Irina, Negara Anatolie - Scientific Laboratory of Gerontology, "N.Testemitanu" State University of Medicine and Pharmacy, Chisinau, Republic of Moldova,

Introduction. The aging process involves a multitude of aging changes, including sarcopenia, which is a muscle failure caused by muscle quantitative and qualitative changes that accumulates throughout life, is frequently underdiagnosed in the elderly.

Keywords. sarcopenia, fragility syndrome, elderly.

Purpose. Assessment of the particularities of sarcopenia in the context of frailty in the elderly to identify informative indices of value and elucidate the character.

13,15% 24,34% Robust Pre-fragile Frail

Figure 1. Graphical representation of the frailty syndrome weight in the elderly

Material and methods.

The epidemiological study patients included (74.46±0.57 years) with sarcopenia determined by SARC-F score, fragility syndrome (FS) - Fried criteria.Respondents were examined according Geriatric Complex Assessment (CGA) autonomy (Katz, Lawton), gait and balance (Tinetti), cognitive status (MMSE), emotional status (Hamilton), muscle strength (dynamometry).

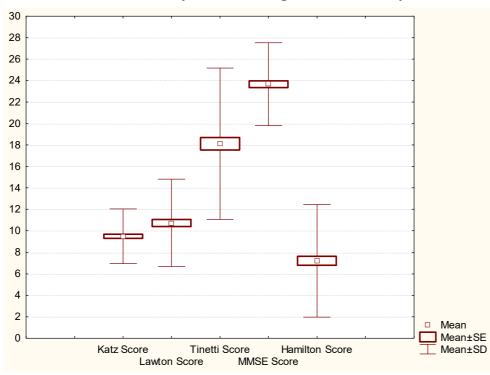


Figure 2. Graphical representation of the mean values of the assessment scores of cognitive and physical status elderly people

Results. The elderly included study the presented sarcopenia, according to the results of screening FS – robust elderly – 13.15%, pre-fragile – 24.34%, fragile – 62.5%, according to CGA - Katz - 9.48 ± 0.20 , Lawton 10.73 ± 0.33 , Tinetti 18.10 ± 0.57 , **MMSE** 23.65 ± 0.31 , Hamilton 7.20 ± 0.42 , dynamometry 11.88±0.86 kg. Mean SARC-F values were directly correlated with decreased muscle strength (Rr=0.3:p < 0.05), low autonomy - Katz (Rr=0.45; Lawton (r=-0.54;p < 0.05), Groningen (r=0.36; p < 0.05), **SPPB** (r=-0.27;p < 0.05), p<0.05).Correlations were established between mean SARC-F values and Fried criteria: general weakness p < 0.05), (Rr=0.31;reduced walking speed (Rr=0.29;p<0.05), weight loss (Rr=0.31; p<0.05).

Conclusions. The results of the study reveal the functional status as one of the most affected aspects of sarcopenia on the background of altered physical condition, such as fragility syndrome.

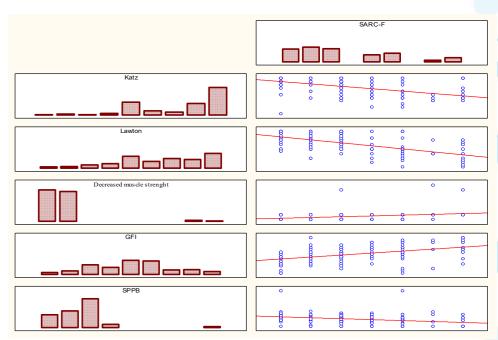


Figure 3.Graphical presentation of the correlation between SARC-F values and functionality indicators of institutionalized elderly people.

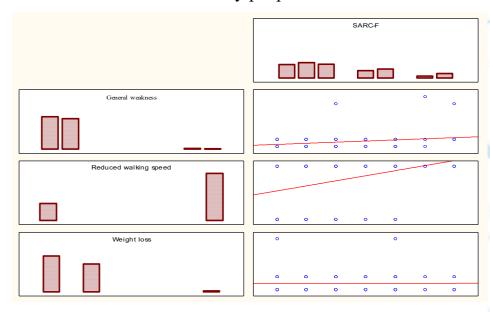


Figure 4.Graphical presentation of the correlation between mean SARC-F values and Fried criteria of institutionalized elderly people