Tipo	Periódico
Título	Sarcopenia and Anemia Are Predictors of Poor Prognostic in Cervical Cancer Patients
Autores	Resende, L. S. A.; Amorim, F. V.; Conceição, M. S.; Jales, R. M.; Pereira, P. N.; Sarian, L. O. Z.; Baiocchi, G.; Derchain, S. F. M.; Silva Filho, A. L
Autor (es) USF	Conceição, Miguel S.
Autores Internacionais	
Programa/Curso (s)	Programa de Pós-Graduação Stricto Sensu em Ciências da Saúde
DOI	10.4236/ojog.2024.145059
Assunto (palavras chaves)	
Idioma	Inglês
Fonte	Título do periódico: Open Journal of Obstetrics and Gynecology ISSN: 0112-1642 Volume/Número/Paginação/Ano: Vol.14 No.5, May 2024
Data da publicação	05/2024
Formato da produção	digital
Resumo	**Objective:** Evaluate pretreatment sarcopenia and anemia as prognostic factors in women undergoing treatment for cervical cancer (CC) with concurrent chemoradiotherapy (CCRT). **Methods:** 151 women with CC were analysed in this cohort study. Pretreatment computed tomography (CT) images were analysed to assess skeletal muscle index (SMI). Hazard ratios (HR) and multivariate Cox proportional HR were used to analyse association between low SMI, age, body mass index (BMI), haemoglobin levels, histological type, and International Federation of Gynaecology and Obstetrics (FIGO) stage with PFS and OS. **Results:** A total of 151 patients were included, 53 (35.1%) presented pretreatment sarcopenia; 51 (34%) stage I/II and 100 (66%) stage III/IV. Among those patients in advanced stage (III/IV) 37 (70%) (p = 0.28) were sarcopenic at the beginning of treatment. Sarcopenia was associated with worse progression-free survival (PFS) and overall survival (OS) in our cohort [HR 0.97 (p = 0.01)] [HR 0.73 (p = 0.001)], as well as anemia [HR 0.73 (p = 0.001)] [HR 0.78 (p = 0.001)]. Linear regression models indicated that despite showing no association with age, neutrophil or platelet counts, sarcopenia was associated with pretreatment anemia levels (p = 0.01). After a multivariate analysis, only haemoglobin (anemia) and complete CCRT remained associated with PFS and OS. Sarcopenia and anemia were associated with worse PFS and OS in FIGO stage I/II. **Conclusion:** Pretreatment sarcopenia was significantly associated with low haemoglobin levels. Anemia and incomplete CCRT were independently associated with poor prognosis in women with CC. Pretreatment sarcopenia, as low SMI, was a predictor of poor prognostic in early stages of CC.
Fomento	