Depression and associated characteristics in older oncology patients at initiation of chemotherapy

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Introduction

- Depression is one of the most prevalent causes of distress in older adults with and without cancer
- The prevalence of depression increases in older adults receiving chemotherapy
- Study purposes were to evaluate for the prevalence of and risk factors for depression prior to the initiation of chemotherapy

Methods

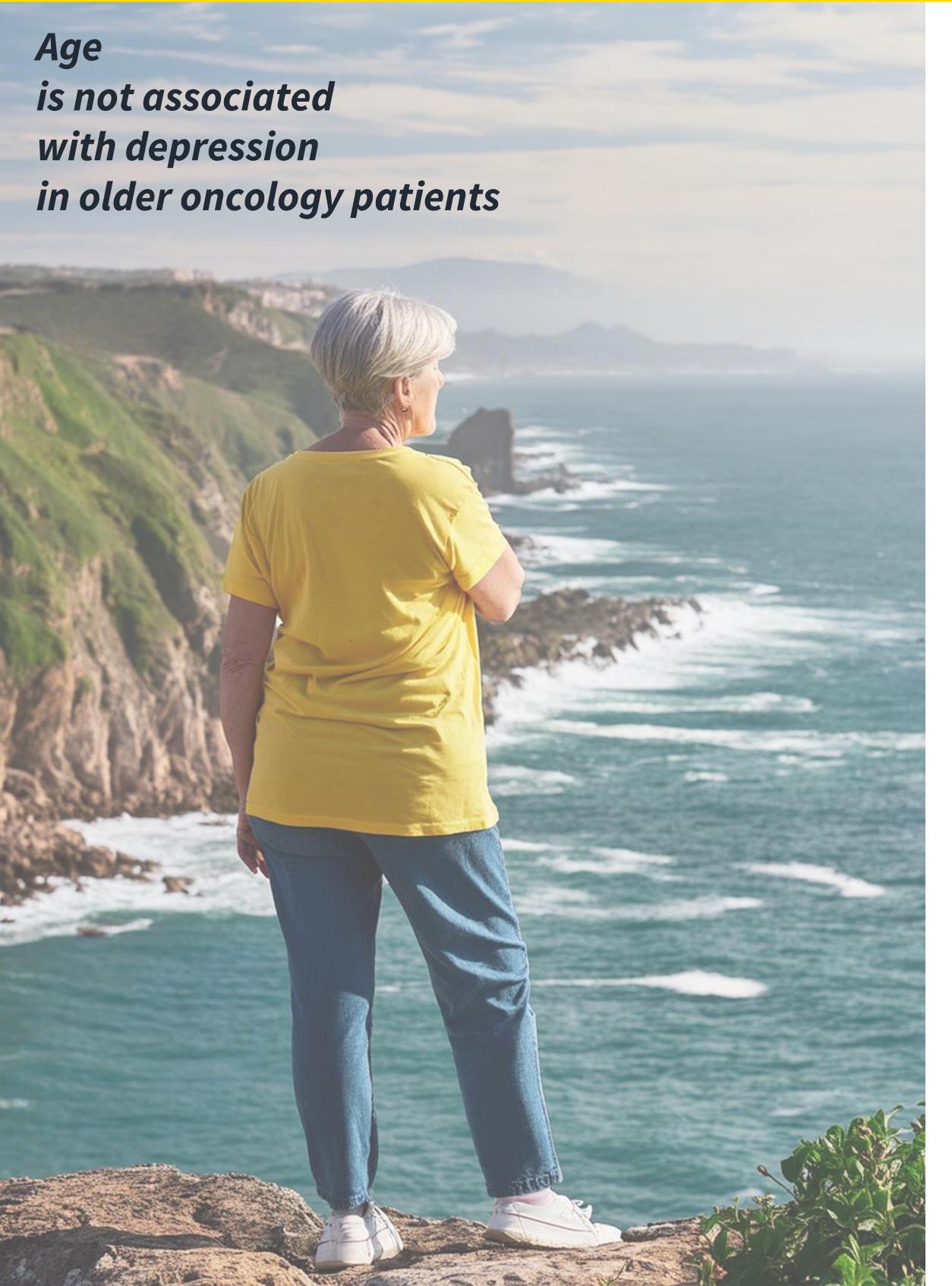
- N = 139, age ≥ 60 years, diagnosed with gynecological or colorectal cancer
- Depressive symptoms measured using the Center for Epidemiological Studies-Depression scale (CES-D). Cutoff score of ≥ 16 indicates depression
- Multivariate regression analyses determined demographic and clinical characteristics associated with higher depression scores

Results

- Mean CES-D score was 11.6
- 27% reported scores above the cut-off of ≥16
- Associations with higher CES-D scores:
- higher number of comorbidities
- female gender
- lower hemoglobin levels
- lower Karnofsky Performance Status score

Conclusion

• Clinicians should consider the burden of comorbidities in older adults at initiation of chemotherapy







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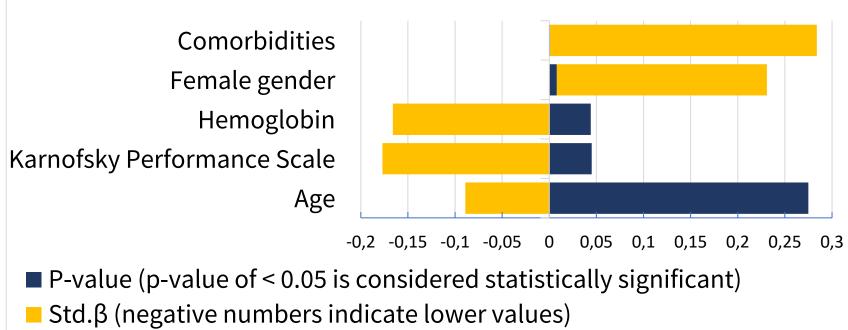
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Demographic and Clinical Characteristics

Characteristic	Mean (SD)
Age (years)	70.5 (6.4)
Karnofsky Performance Status score	86.7 (10.9)
Body mass index (kg/m²)	25.8 (6.0)
Number of comorbidities	1.9 (1.8)
Hemoglobin (g/dl)	12.6 (1.7)
	n (%)
Female gender	130 (93.5)
Married or partnered (% yes)	83 (62.9)
Education	
Primary school	19 (16.0)
High school	56 (47.1)
College	44 (37.0)

Abbreviations: dl = deciliters, g = grams, kg = kilograms, m2 = meters squared, SD = standard deviation

Demographic and Clinical Characteristics Associated with Higher CES-D Scores in Multivariable Regression Analysis



Univariable and Multivariable Regression Analyses of Demographic and Clinical Characteristics and Severity of Depression

Variable	Univariable analysis			Multivariable analysis			
Variable	Adj. R ²	Std. β	95 % CI	p-value	Std. β	95 % CI	p-value
Age	002	080	335, .129	.380	089	320, .092	.275
Gender (ref. male)	.070	.278	3.448, 14.901	.002	.223	1.939, 12.759	.008
Karnofsky Performance Status	.109	342	388,129	.000	177	264,003	.045
Body mass index (kg/m²)	.010	.137	060, .428	.137			
Number of comorbidities	.106	.337	.764, 2.326	.000	.283	.550, 2.075	.001
Hemoglobin (g/dl)	.042	224	-2.165,261	.013	166	-1.783,024	.044
Marital status (ref. married)	.021	.172	118, 5.948	.059			
Education (ref. higher education)	.005	.116	-1.194, 5.190	.217			

Abbreviations: Adj. R^2 = Adjusted R-squared, CI = Confidence Interval, dl = deciliters, g = grams, kg = kilograms, m^2 = meters squared, ref. = reference, Std. β = Standardized beta