

The Relationship between Depression & Dementia in a Geriatric Psychiatry Population

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Predicting the Severity of Dementia using Standardized Beta Coefficients

NORMAL MILD MODERATE SEVERE COGNITVE DEMENTIA DEMENTIA **DEMENTIA** IMPAIRMENT .195 ** .314 ** .497 ** .329 ** Orientation 189 ** Language .417 ** .533 ** .631 ** .468 ** .415 ** Memory .703 ** .959 ** .862 ** .545 ** .298 ** .218 ** .362 ** Attention .576 ** .670 ** .171 ** .201 ** Praxis .335 ** .501 ** .577 ** .342 ** Abstract .319 ** .516 ** .605 ** .319 ** .200 ** Perception .324 ** .447 ** .482 ** .377 ** .217 ** **MADRS**

NOTE: ** = Standardized Beta Coefficients are significant at p < .001 x = scale has no predictive utility in the prediction equation

- Bivariate regression analysis: was performed to determine the best predictors of the severity of dementia.
- Normal (no Dementia): CAMCOG Memory subscale
- Mild cognitive Impairment: CAMCOG Memory subscale
 Mild Dementia: CAMCOG Memory subscale
 Mild Dementia: CAMCOG Memory subscale
 Moderate Dementia: CAMCOG Memory subscale

- Severe Dementia: CAMCOG Language subscale

Correlation Matrix of CAMCOG, MADRS, & MMSE Scores

	Orientation	Language	Memory	Attention	Praxis	Abstract	Perception	CAMCOG	MADRS	MMSE
Orientation	-	.647 **	.738 **	.515 **	.566 **	.485 **	.465 **	.808 **	.087	.834 **
Language			.673 **	.657 **	.689 **	.528 **	.531 **	.880 **	.054	.812 **
Memory				.570 **	.582 **	.538 **	.488 **	.887 **	.118	.762 **
Attention					.542 **	.486 **	.382 **	.750 **	.089	.810 **
Praxis						.406 **	.532 **	.773 **	.038	.698 **
Abstract							.415 **	.676 **	.179 **	.600 **
Perception								.655 **	.028	.549 **
CAMCOG									.108	.922 **
MADRS										.076
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NOTE: Orientation = CAMCOG Orientation subscale: Language = CAMCOG Language subscale: Memory = CAMCOG Memory subscale: Attention = CAMCOG Attention subscale: Praxis = CAMCOG Praxis subscale: Abstract = CAMCOG Abstract subscale: Perception = CAMCOG Perception subscale: CAMCOG = CAMCOG Total score.

** Significant at p< .01

OBJECTIVES:

- To investigate the relationship between depression and dementia in a geriatric psychiatry sample To identify the best predictors of dementia

SETTING: Geriatric psychiatry unit in a tertiary care regional mental health facility.

PARTCIPANTS: 237 (111 males and 126 females) geriatric

psychiatry inpatients ranging in age from 61 to 93 (mean = 74). Number of medical conditions ranged from 0-8 (mean = 2.08). 46.8% had a minimum of a secondary school diploma

MEASURES: Cambridge Cognitive Examination

[CAMCOG] (Martin, Huppert, Mountjoy, & Tym, 1988) which is a multidimensional measure of cognitive functioning.

CAMCOG Subscales: Orientation, Language (Comprehension & Expression) Memory, Attention/concentration, Praxis, Abstract thinking, Perception, and Executive functioning.

	(normal/no dementia):	21 male; 23 female
80-89	(mild cognitive impairment):	34 male; 41 female
70-79	(mild dementia):	26 male: 23 female
50-69	(moderate dementia):	17 male; 29 female
< 50	(severe dementia):	12 male; 10 female

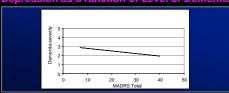
Montgomery-Asberg Depression Rating Scale [MADRS]: (Montgomery & Asberg, 1979) A ten item rating scale of the somatic, cognitive & affective symptoms of depression.

0-6 (asymptomatic):	47 male; 41 female
7-19 (mild depression):	42 male; 50 female
20-34 (moderate depression):	21 male; 33 female
> 35 (severe depression):	1 male; 2 female

RESULTS:

Correlation coefficient analysis: supported a significant negative relationship between severity of dementia and level of depression (r = - .191, p < 0.05) for those who were depressed.

Depression as a function of Level of Dementia



Changes in Cognitive Functioning with Increasing Levels of Dementia



CONCLUSIONS:

- · Individuals with mild to moderate dementia are at the greatest risk of depression
 • Individuals with severe dementia report few
- symptoms of depression.
- The best predictor of dementia varies with the level of severity
- · For mild cognitive impairment, mild dementia and moderate dementia, memory is the single best predictor of dementia.
- For severe dementia, language Is the single best predictor of dementia
- Relative to the CAMCOG Subscales, the MMSE has limited utility for predicting the severity of dementia

Martin, R., Huppert,F., Mountjoy, C. Q., & Tym, E. (1988). The Camdex. Cambridge university press: Cambridge, UK. Montgomery, S. A. & Asberg, M. (1979). A new depression scale designed to be sensitive to change. British journal of Psychiatry, 134, 382-389.

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