

Caregiving Impact on Depressive Symptoms for Family Caregivers of Terminally Ill Cancer Patients in Taiwan

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Family Caregivers in End-of-Life Care

- ∞ The trend toward shortened hospital stays and outpatient or home care implies the burden of caring for chronic ill patients (including terminally ill patients) is increasingly falling on their families.
- ∞ Family are partners in health care.

Family Caregivers in End-of-Life Care

- ∞ Family caregiving is particularly prevailing in Chinese cultures for terminally ill patients.
- ↗ Confucian cultures place great emphasis on filial piety and familism.
- ↗ Children should take care of parents when they are aged, sick, or even dying in return of parents' efforts in bringing them up.

Family Caregivers in End-of-Life Care

∞ Preferences of dying at home (Tang, 2000)

↗ Cultural meaning of dying at home for Chinese/Taiwanese terminally ill patients.

∞ Death at home does not come without significant challenges and potential consequences for families.

∞ Caring for a patient contributes to physical disease, psychiatric morbidity, and increased mortality.

Depression among Family Caregivers

∞ Depression is the most frequently documented negative psychological consequences of caregiving.

↗ Advanced diseases or receiving palliative care: 30% ~ 50%. (Pitceathly & Maguire, 2003)

↗ Caregivers of terminally ill cancer patients reported higher prevalence of depressive symptoms than caregivers of AIDS or dementia patients. (Flaskerud, Carter & Lee, 2000)⁵

Depression among Family Caregivers

∞ Gap of current knowledge

- Family caregivers in East Asian countries are known to have a strong sense of filial piety and a traditional caregiving ideology.
- They are generally presumed to be protected from psychological distress arising from caregiving.
- There is scant information regarding the impact of caregiving on Chinese/Taiwanese families of terminally ill cancer patients.

Purposes of The Study

- ❧ Investigate the objective and subjective caregiving burden for family caregivers of terminally ill cancer patients in Taiwan.
- ❧ Identify determinants for negative emotional impact of caregiving—depressive symptoms for Taiwanese family caregivers of cancer patients.

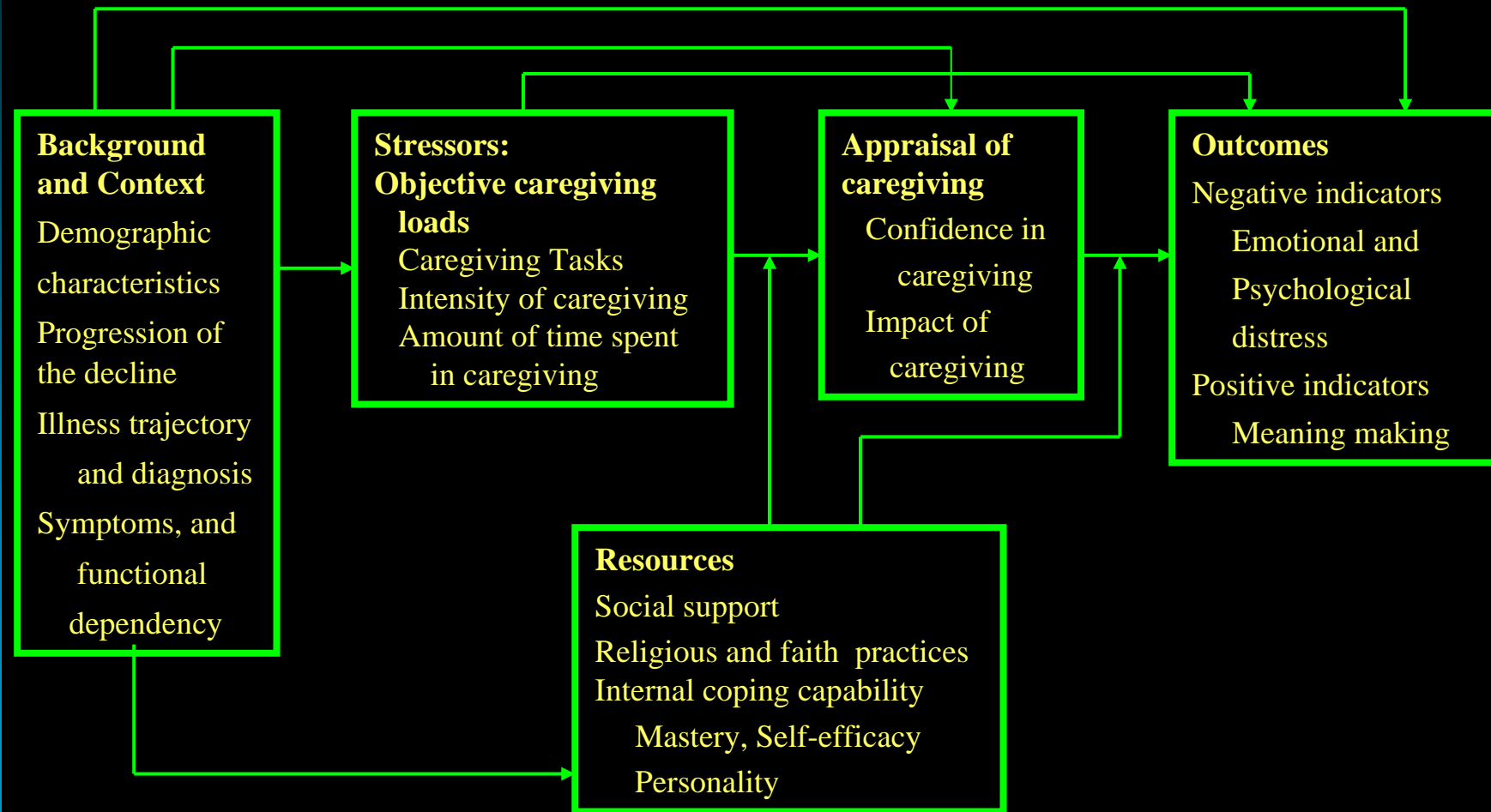
Research Design

- ❧ Cross-sectional survey conducted from March to October 2005
- ❧ 112 caregivers were recruited from 126 potential subjects (participation rate: 88.9%) by a convenience sampling strategy.
- ❧ Eligibility criteria:
 - Identified as the person most involved with the actual care of the terminally ill cancer patient
 - Age > 21 years old and agree to participate

The Profile of Family Caregivers

- ∞ The majority of family caregivers of terminally ill cancer patients were:
 - ↗ female (63.9%), married (88.6%)
 - ↗ the patient's spouse (42.0%), child (39.3%)
 - ↗ Mean age : 49.9 years old (range: 21-86, median: 50.8 years old)
 - ↗ educational level \leq high school (65.2%)
 - ↗ lived with the patient (73.2%)

Theoretical Framework of Caregiving



(Pearlin et al., 1990; Nijboer et al., 1998)

Measurements

∞ Background or contextual factors

↗ Patient characteristics and disease variables

∞ Symptom distress: Symptom Distress Scale

(McCorkle & Young, 1978)

↗ Caregiver characteristics:

∞ Demographics and relationship with the patient

∞ Frequency and intensity of contact between patients and families

(Lobchuk & Degner, 2002)

∞ Prior caregiving experience

Measurements

∞ Objective caregiving burden:

↗ Amount of time spending in caregiving per day

↗ Care tasks and levels of care (Emanuel et al., 1999)

∞ Personal care

∞ Homemaking

∞ Transportation

∞ Health care

∞ 4-point scale: “none at all” to “always”

Measurements

∞ Subjective caregiving appraisal:

↗ Confidence in caregiving (Teno et al., 2001)

∞ Confidence in taking care of the patient at home and knowing how to expect /do at death

↗ Caregiving Reaction Assessment (CRA)

∞ daily schedule, health, finance, social support, and self-worth (esteem) (Given et al., 1992)

∞ A higher score represented a stronger **negative** impact of the attribute

Measurements—Outcome Measure

∞ Negative emotional impact of caregiving

↗ Center for Epidemiological Studies-
Depression Scale (CES-D)

(Radloff, 1977)

↗ Total score: 0~60

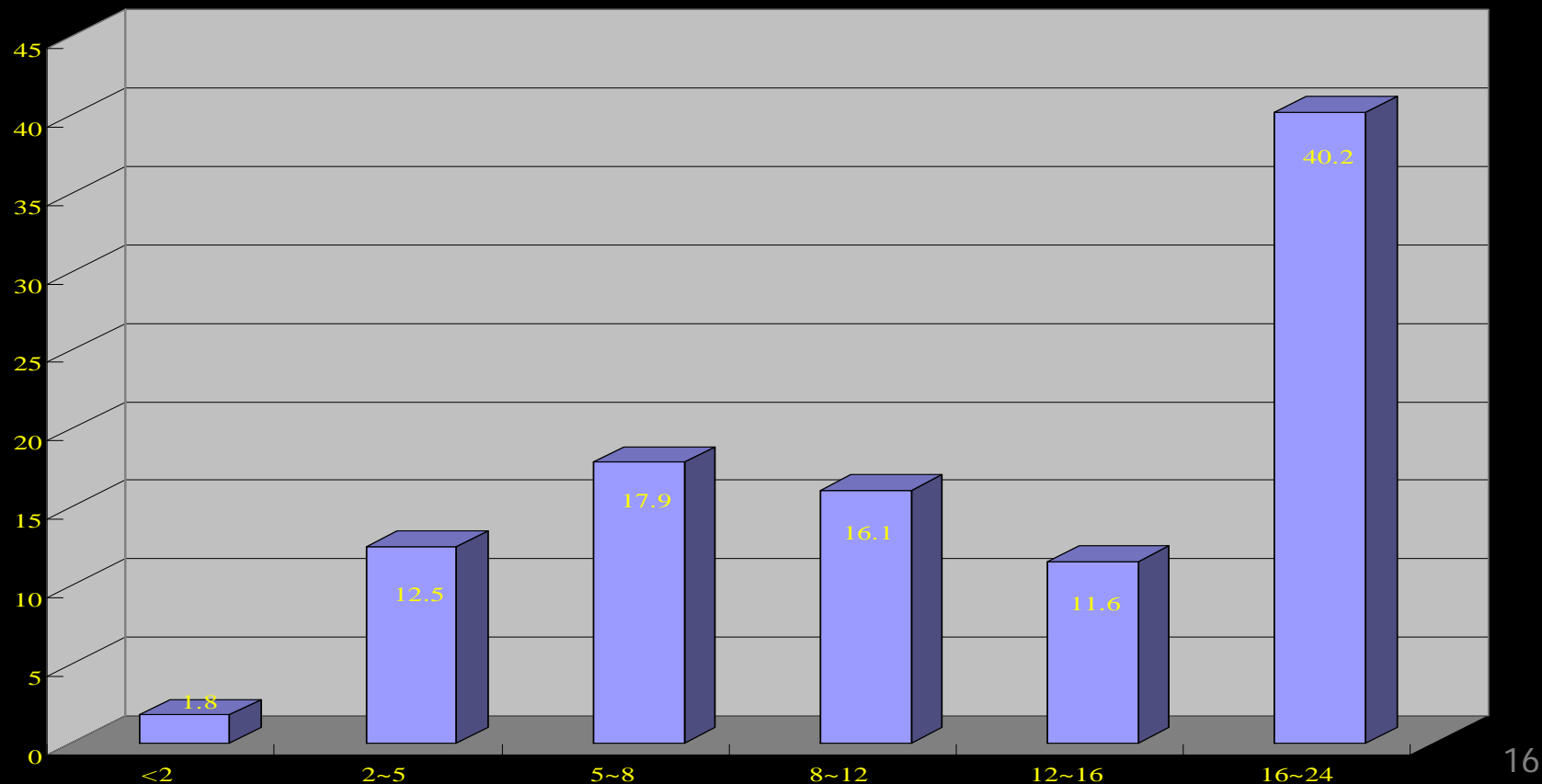
↗ Cutoff: >15—clinical depression

Statistical Analysis

- ✧ Multivariate logistic regression with backward selection was used to identify determinants of depressive distress.
- ✧ For parsimony, only those variables that exhibited statistically significant associations or differences with depressive distress at bivariate analyses by chi-square statistics and independent t-tests were entered into the initial model.

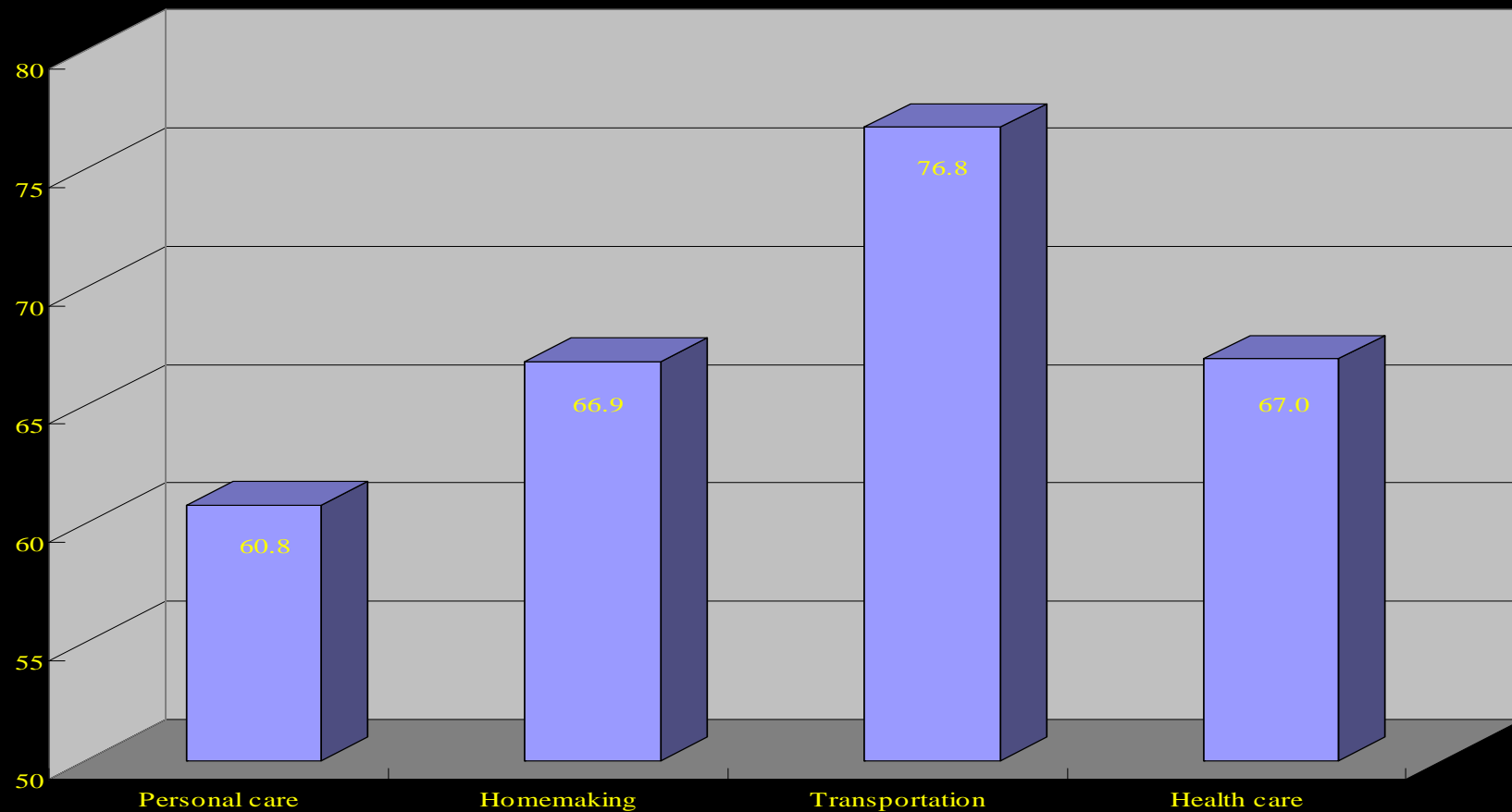
Results—Objective Caregiving Burden

Time spent in caregiving each day (Hours)



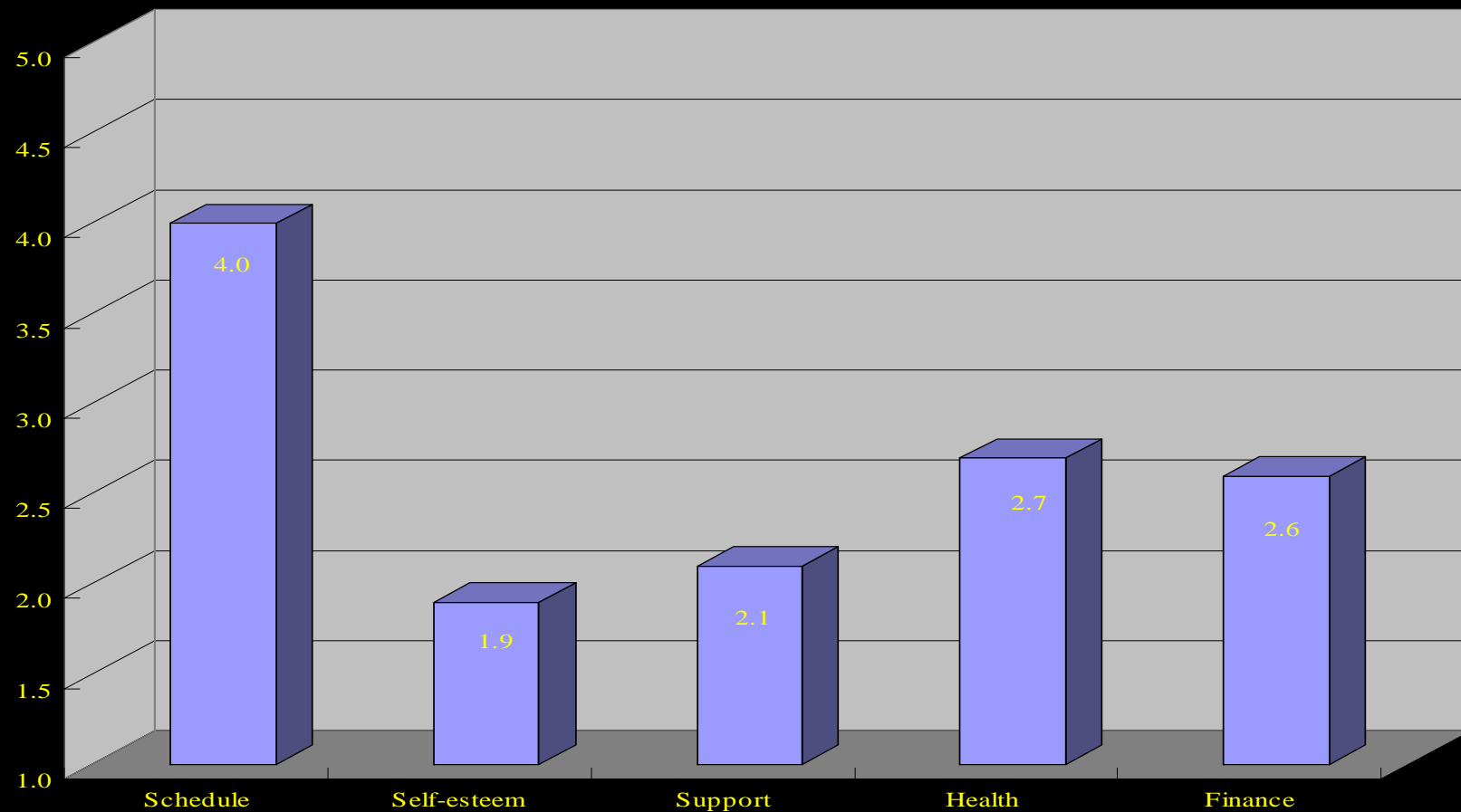
Results—Objective Caregiving Burden

Care Tasks provided frequently or always (%)



Results—Subjective Caregiving Burden

Item mean scores of the CRA subscales



Depression among Family Caregivers

☞ CES-D scores for Taiwanese caregivers

☞ Range: 3-55, M (SD)=24.01 (11.24)

☞ Prevalence of clinical depression: 75.9%

Depressed vs Non-Depressed Caregivers

∞ Bivariate analysis:

↗ Patient demographics and disease-related:

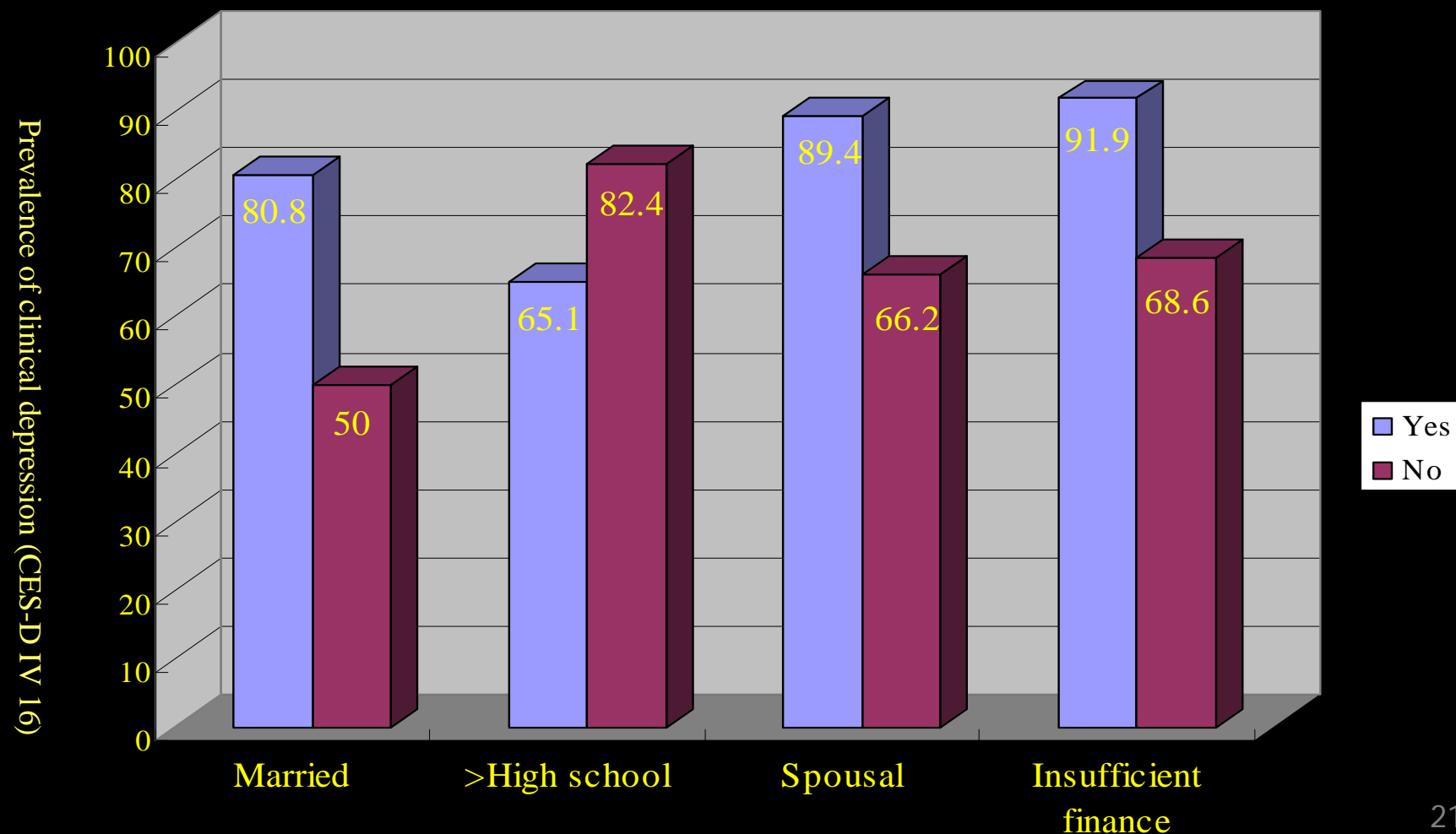
∞ None was significantly different between depressed and non-depressed caregivers.

↗ Caregiver demographics/relationship

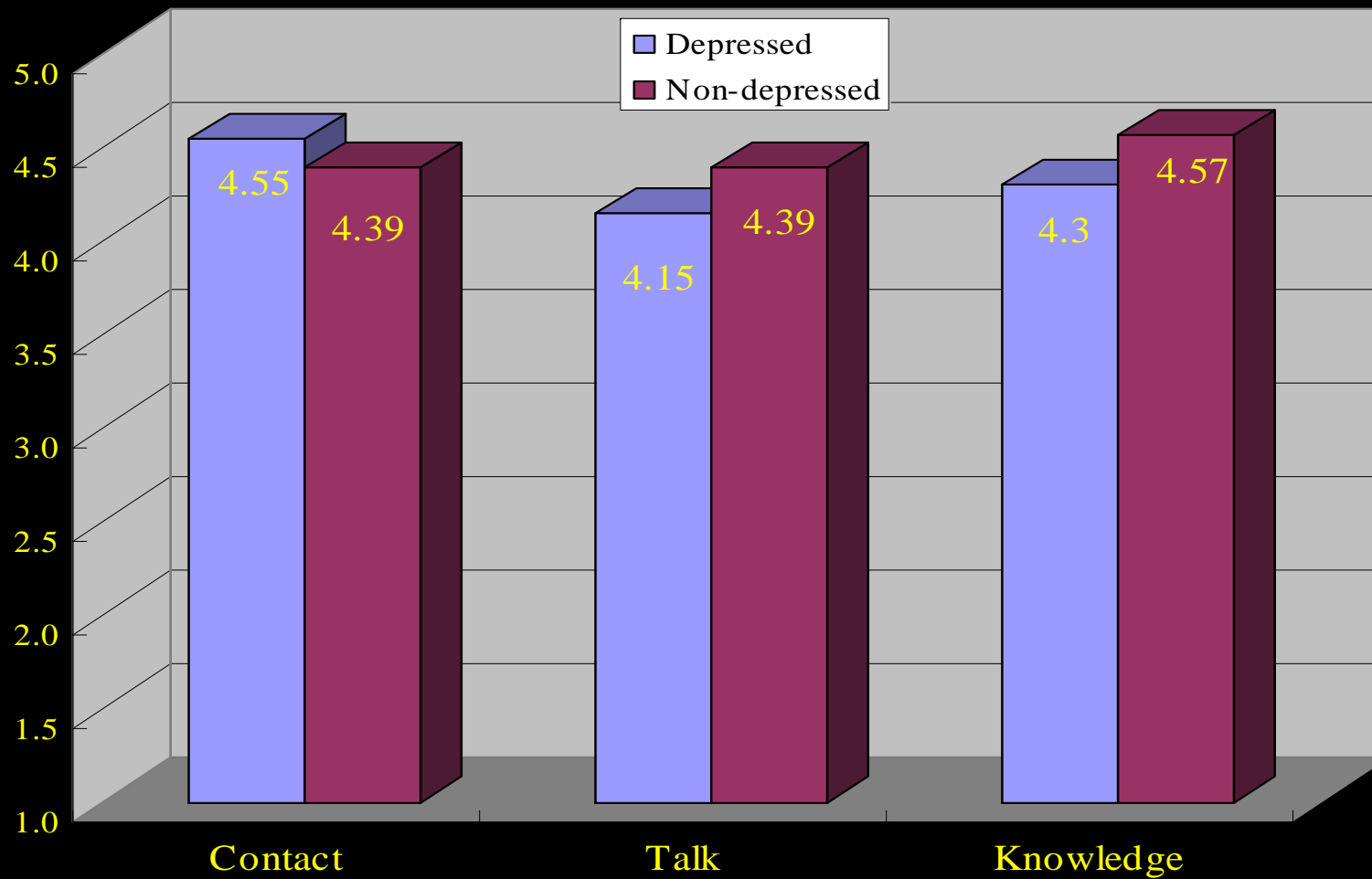
∞ Married, spousal, with low educational level and insufficient financial status were more likely to be depressed.

∞ No influence of closeness of relationship

Depressed vs Non-Depressed Caregivers



Depressed vs Non-Depressed Caregivers



Depressed vs Non-Depressed Caregivers

∞ Bivariate analysis:

↗ Objective caregiving burden:

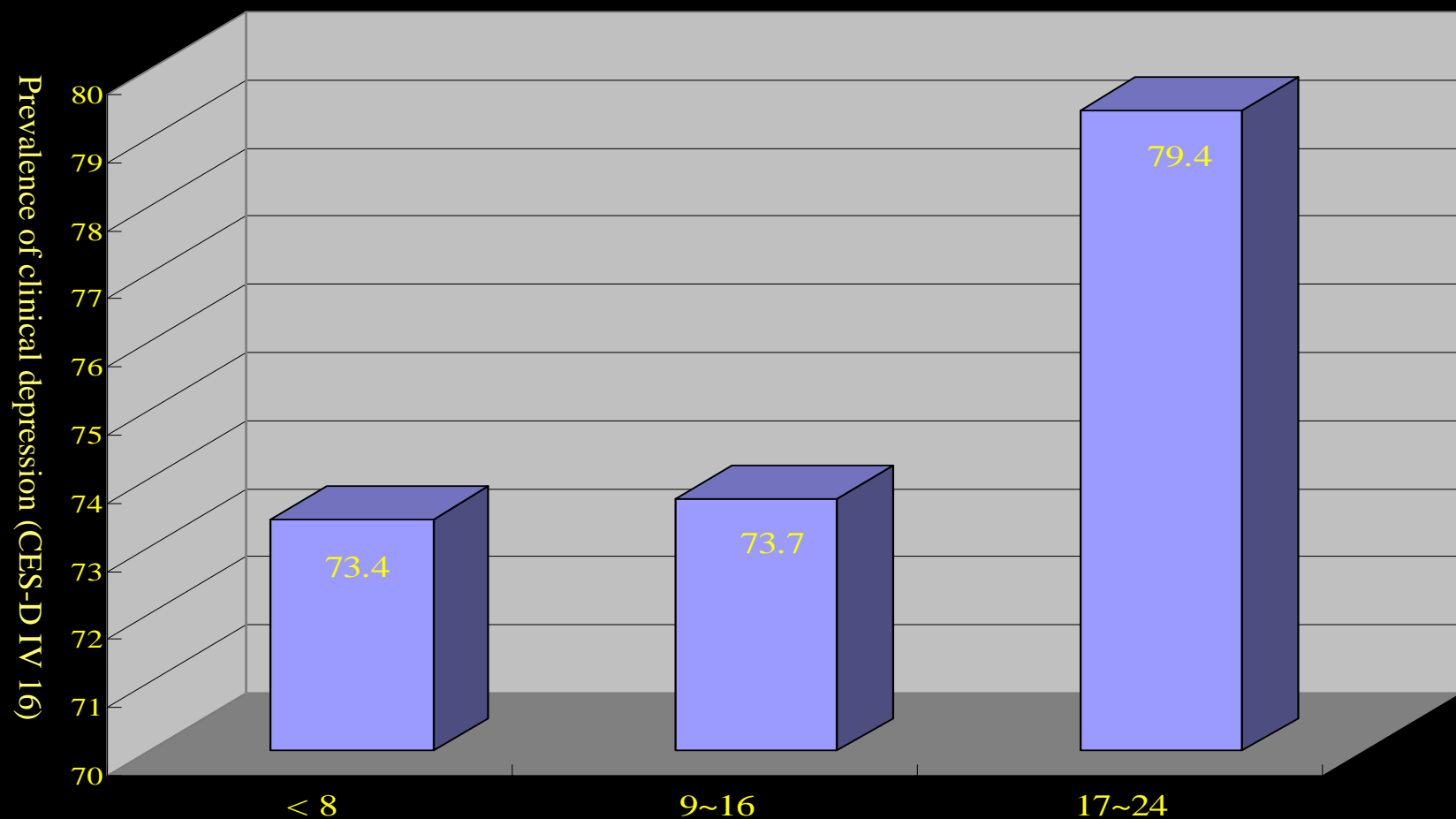
- ∞ None was significantly different between depressed and non-depressed caregivers.

↗ Subjective appraisal of caregiving:

- ∞ There were significances in
 - Confidence in taking care of the patient at home
 - Caregiving impact on schedule, health, finance, and support.

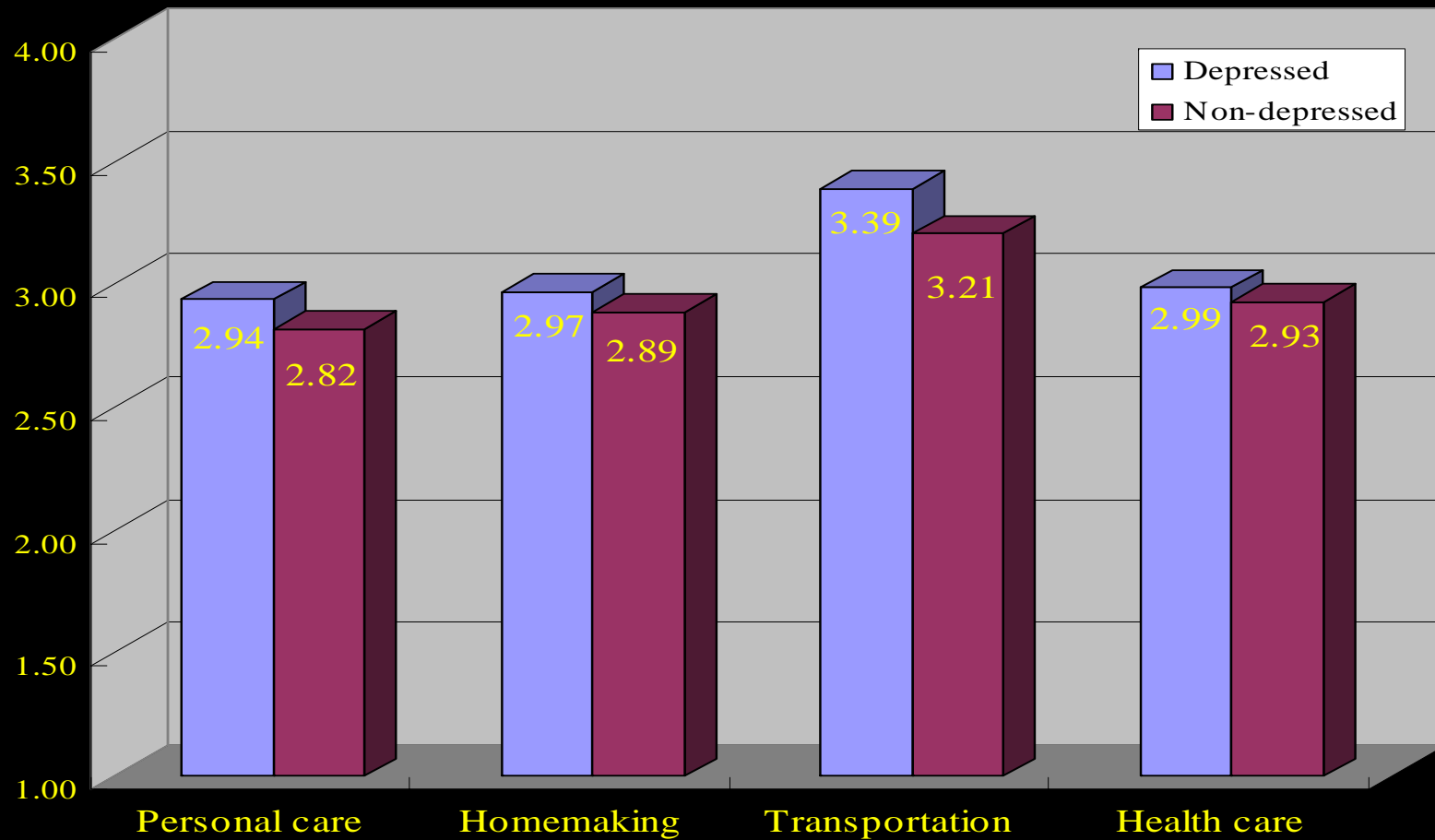
Depressed vs Non-Depressed Caregivers

Time spent in caregiving each day (Hours)



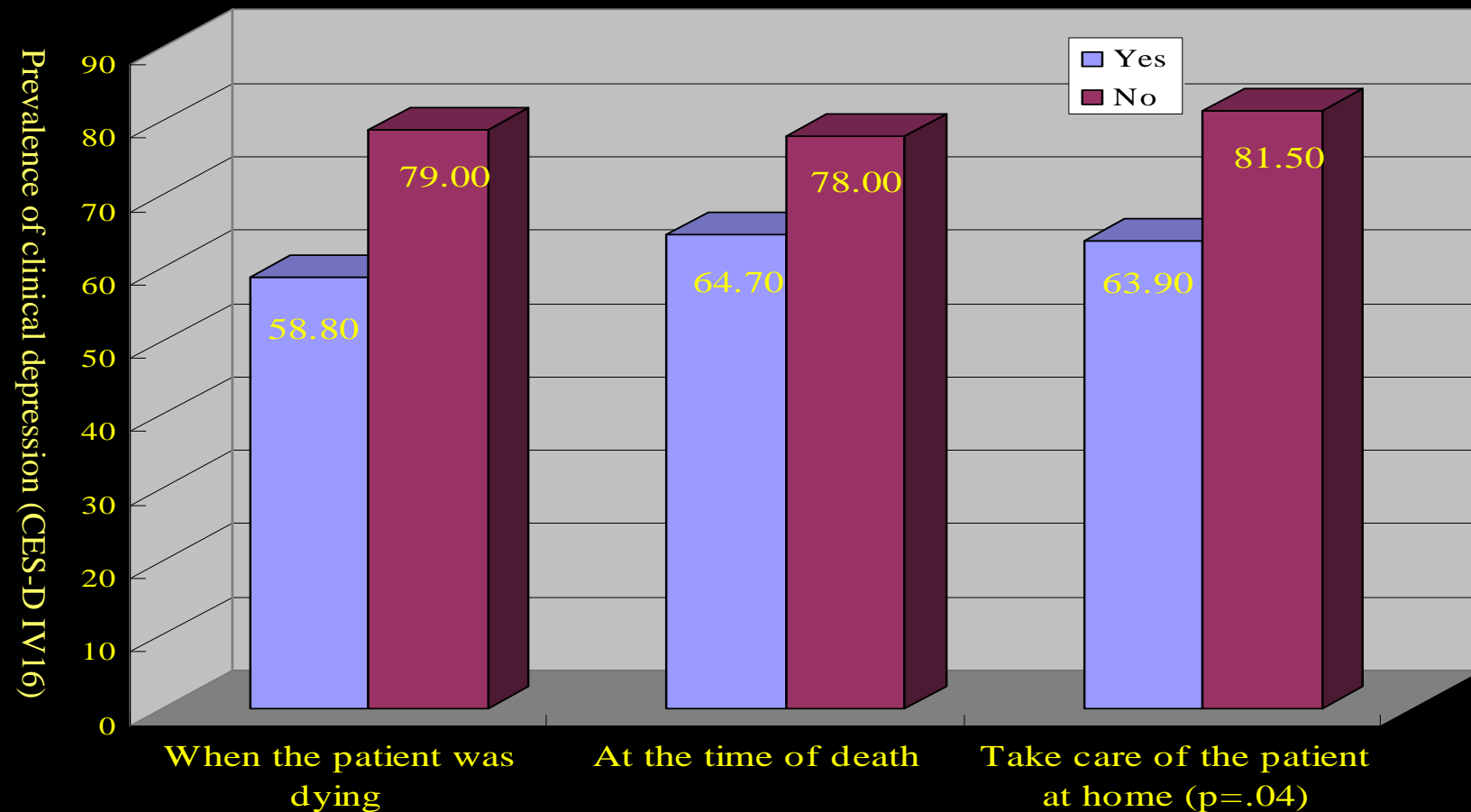
Depressed vs Non-Depressed Caregivers

Care Tasks and Level of Care



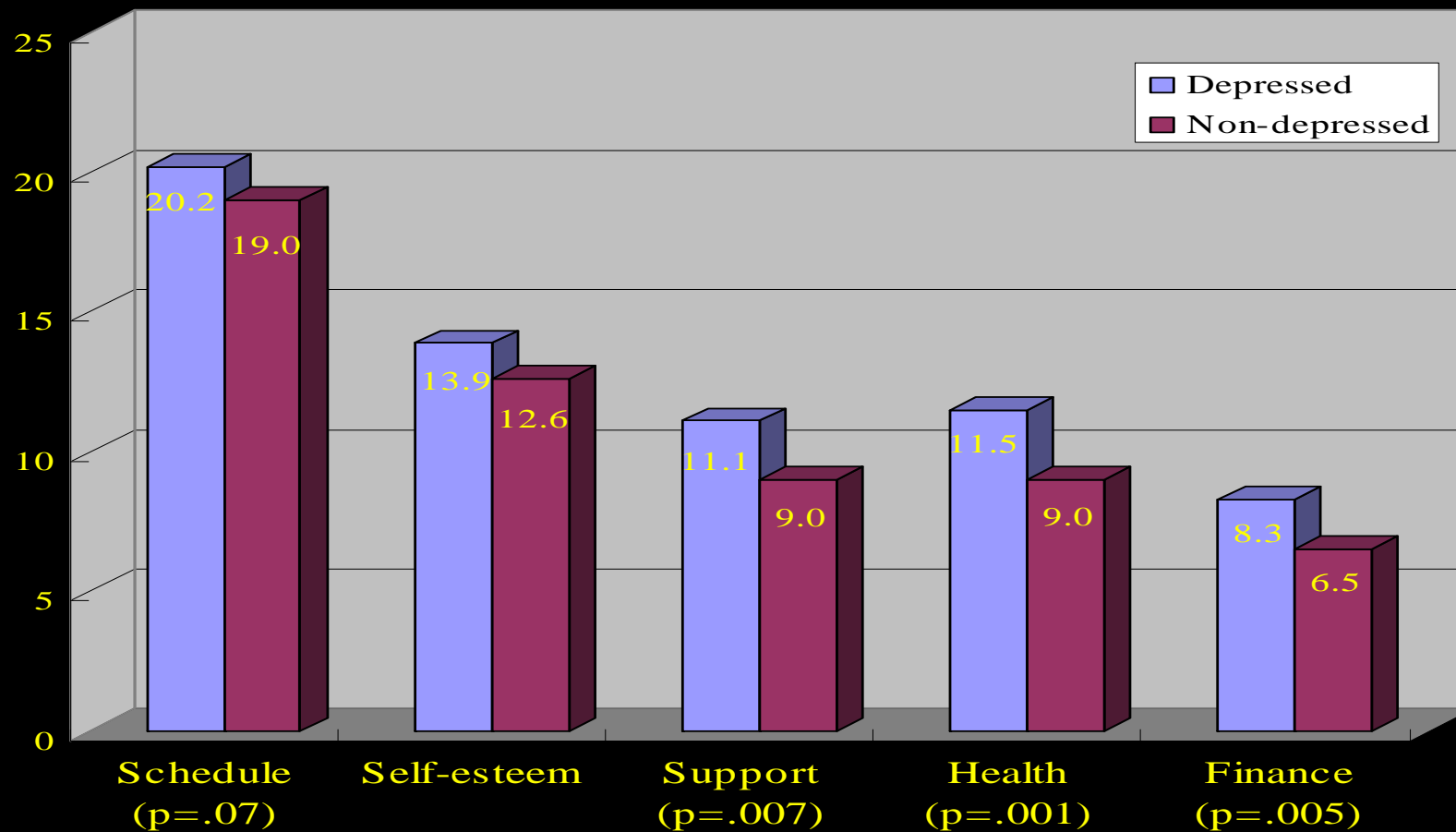
Depressed vs Non-Depressed Caregivers

Confidence in knowing what to do



Depressed vs Non-Depressed Caregivers

Scores of CRA subscales



Determinants of Clinical Depression

Variable	b*	Wald χ ²	p	Odds Ratio	95% CI** OR
Intercept	-1.50	3.09	0.08		
Caregiving impact on health	0.23	6.92	0.009	1.26	1.06, 1.49
Spouse	1.12	3.88	0.05	3.06	1.01, 9.32
Model significance					
Model Chi-square (df=2)		16.02		p=0.0003	
Model Goodness-of-Fit Statistics					
Criterion	Value		df	Value/ df	p
Deviance	100.32		103	0.97	0.55
Pearson	116.17		103	1.13	0.18

Discussion

❧ High prevalence of clinical depression among Taiwanese family caregivers

Author (year)	Country	%	Author (year)	Country	%
Raveis (1998)	USA	30	Kim (2005)	USA	30
Flaskerud (1998)	USA	50	Schreiner (2003)	Japan	52.9
Aranda (2001)	Australia	21-30	Lee (2004)	Korea	85.0
Haley (2001)	USA	55		KA	71.0
Grov (2005)	Norway	18-30		CA	63.0

Discussion

- ∞ Appropriate threshold of CES-D for different ethnic groups
 - ↗ Threshold may not be applied to cultural groups that tend to somatize psychological problems
 - ↗ Cheng and Chan (2005): 22 vs 16
 - ↗ Revised prevalence of clinical depression for Taiwanese family caregivers of terminally ill cancer patients: 52.9%

Discussion

∞ Determinants of clinical depression

↗ “Appraisal of caregiving” is the more salient predictor than objective measures of caregiving stressors, such as amount and duration of time spent in caregiving, care tasks, and intensity of caregiving

∞ Caregiving impact on health

∞ Confidence in taking care of patients at home

Implications

- ❧ Taiwanese family caregivers were at an extraordinarily high risk of clinical depression.
- ❧ Effective interventions shall target on spousal family caregivers to reduce the negative impact of caregiving on their health by modifying their subjective appraisal of caregiving loads.