

図 2:睡眠障害および随伴精神行動障害(BPSD)の出現頻度

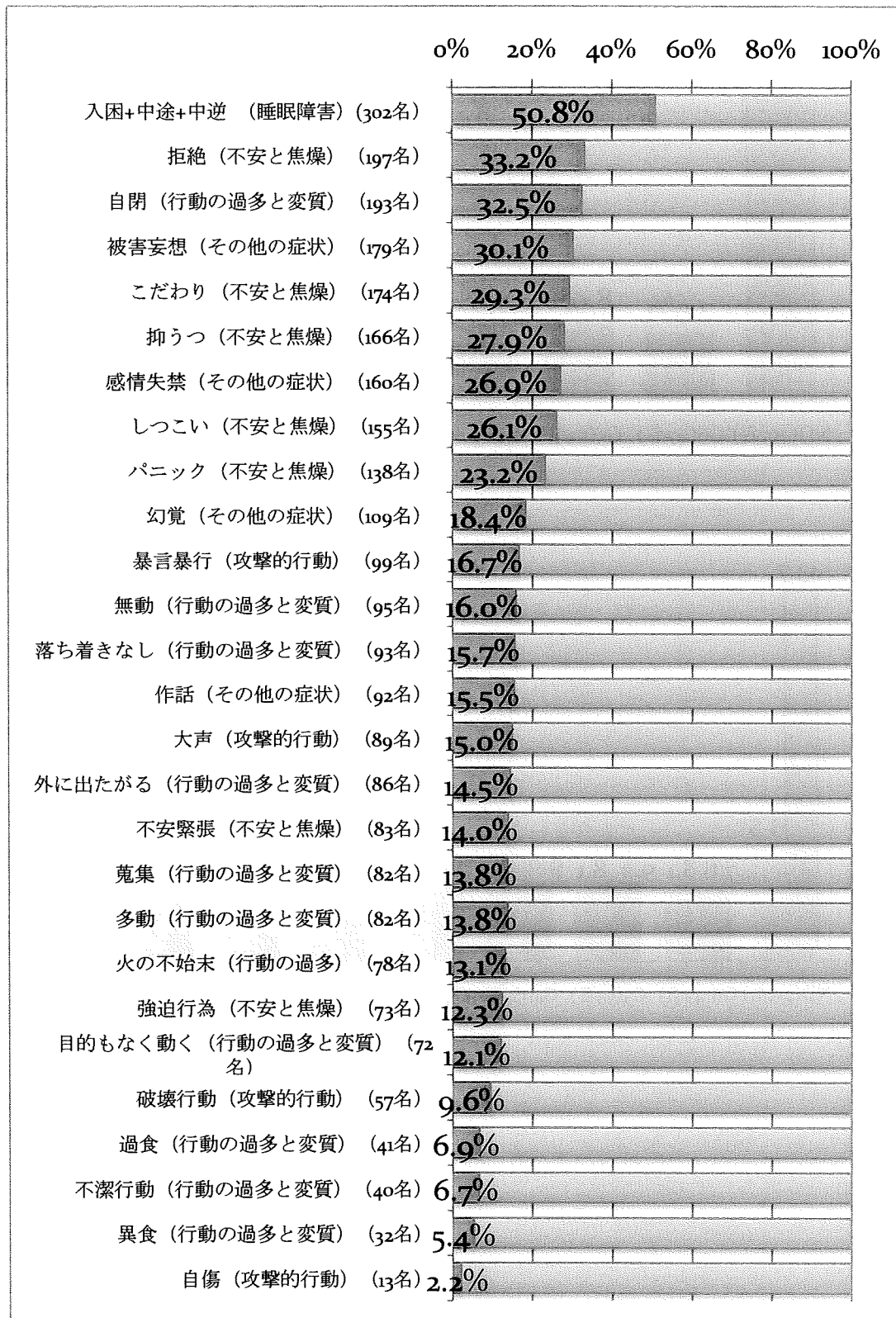


図 3-1, 3-2:4 つの BPSD カテゴリの障害頻度

図3-1 攻撃的行動

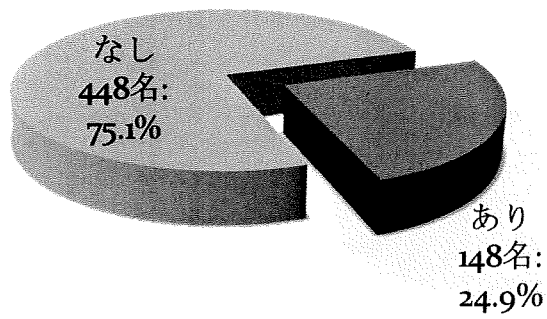


図3-2 行動の過多と変質

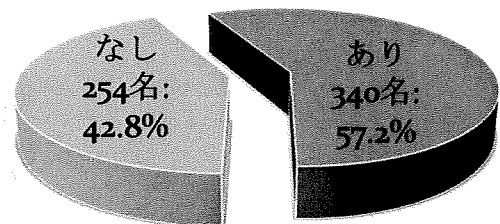


図3-3 不安と焦燥

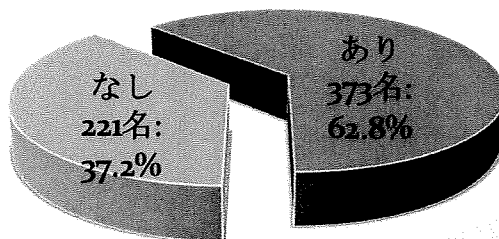


図3-4 その他の諸症状

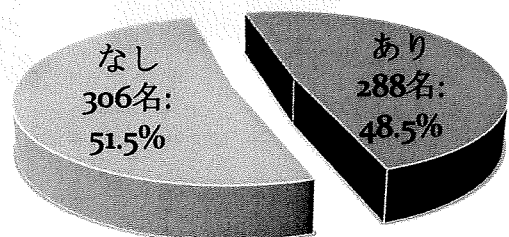


図 4-1, 4-2: 各睡眠障害の障害頻度

図4-1 入眠困難

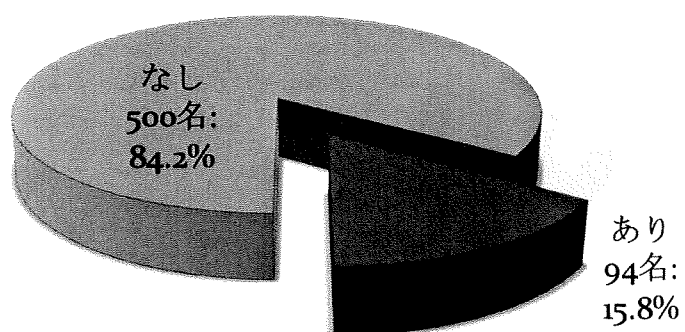


図4-2 睡眠維持障害

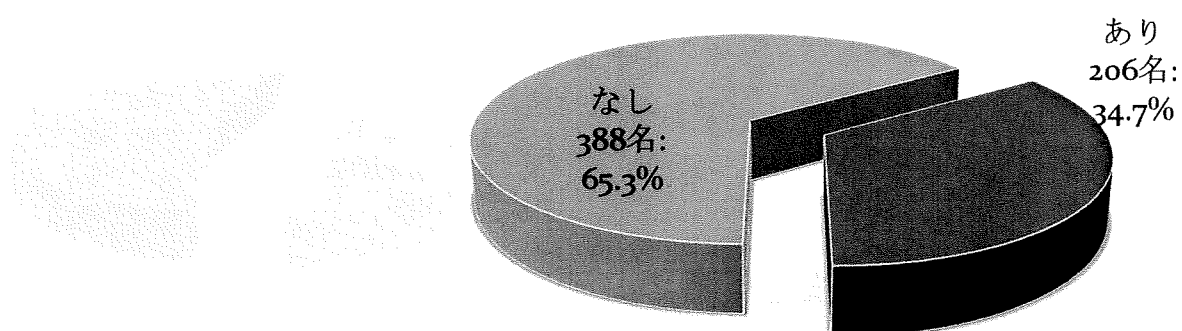


図4-3 昼夜逆転

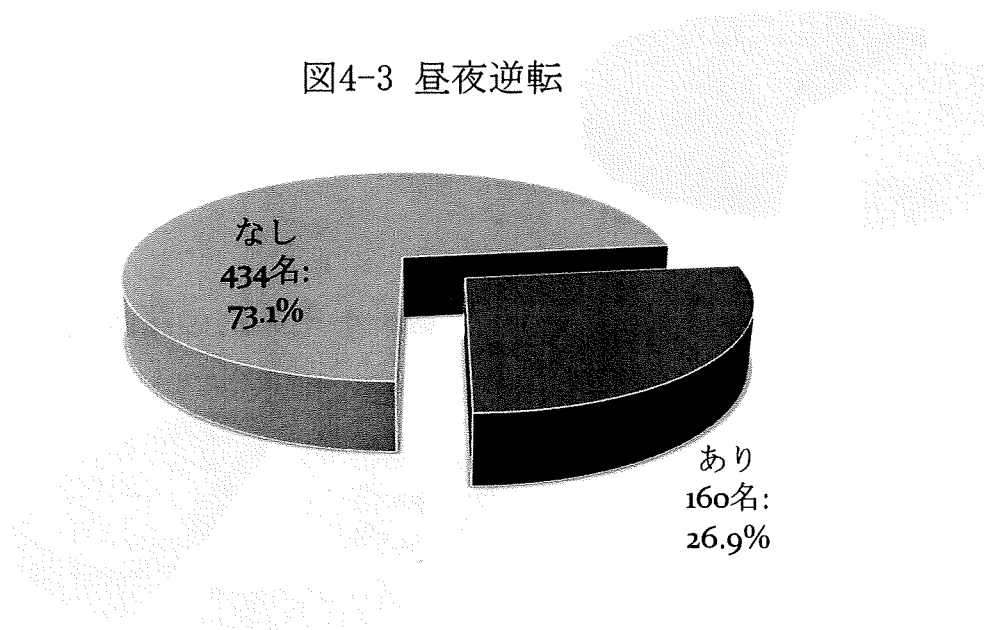


図 5-1, 5-2: 認知機能グレードと 4 つの BPSD カテゴリ

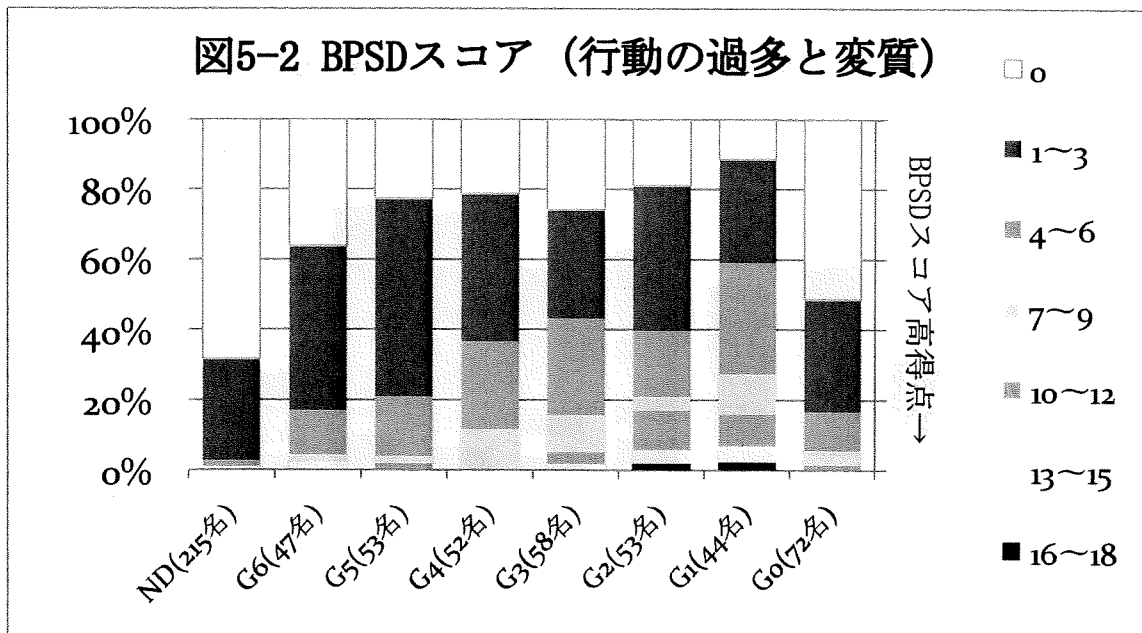
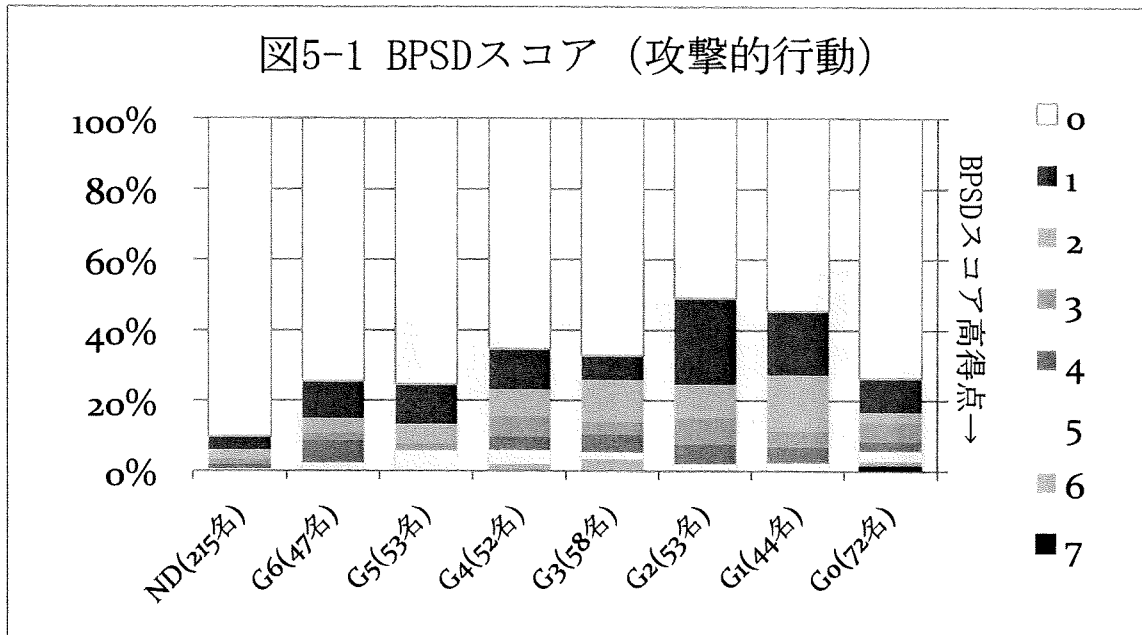


図 5-3, 5-4: 認知機能グレードと 4 つの BPSD カテゴリ

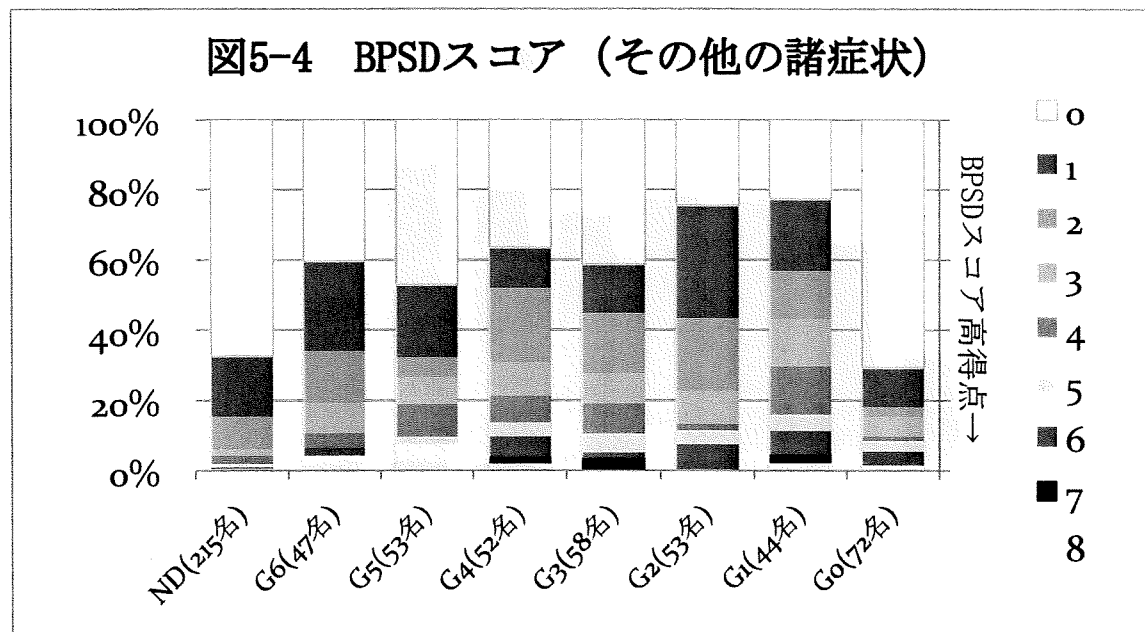
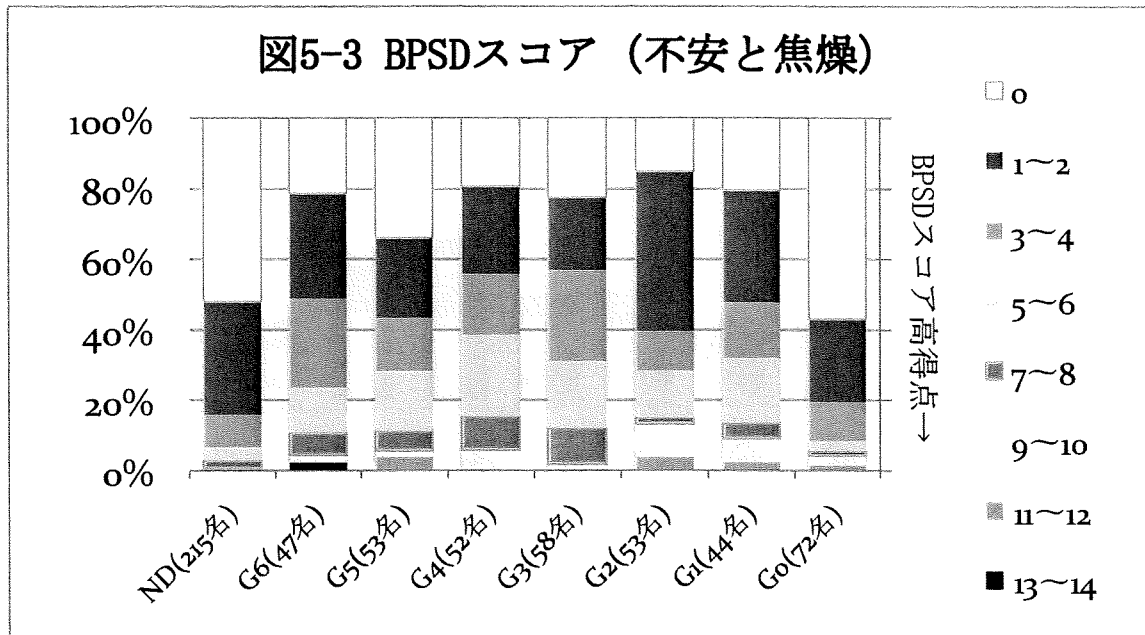


図 6-1, 6-2: 認知機能グレードと睡眠障害の頻度

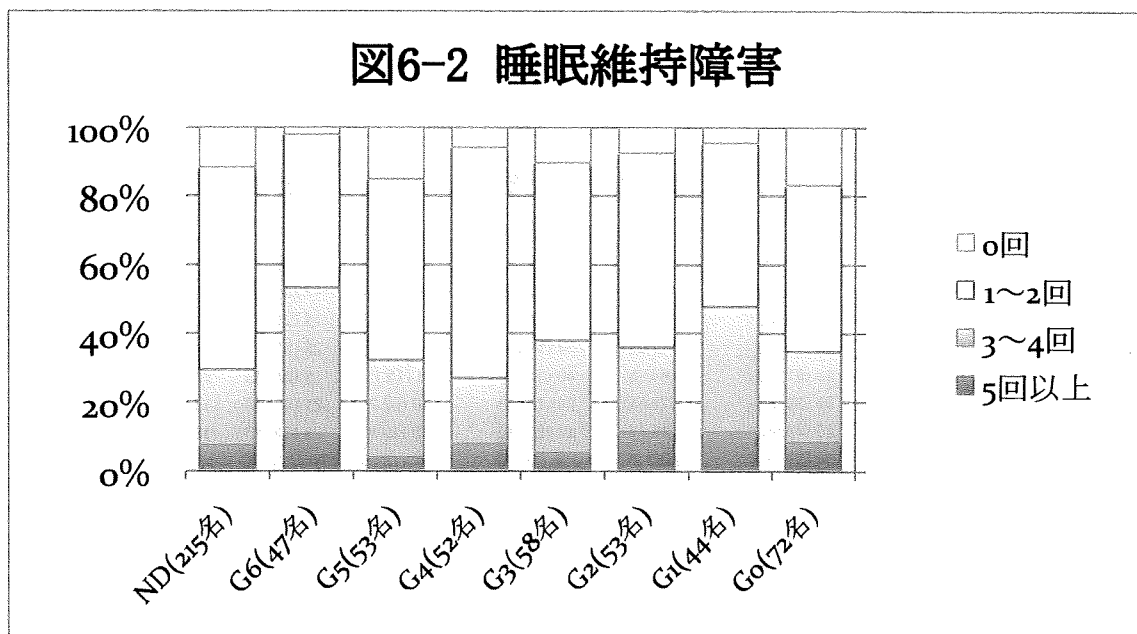
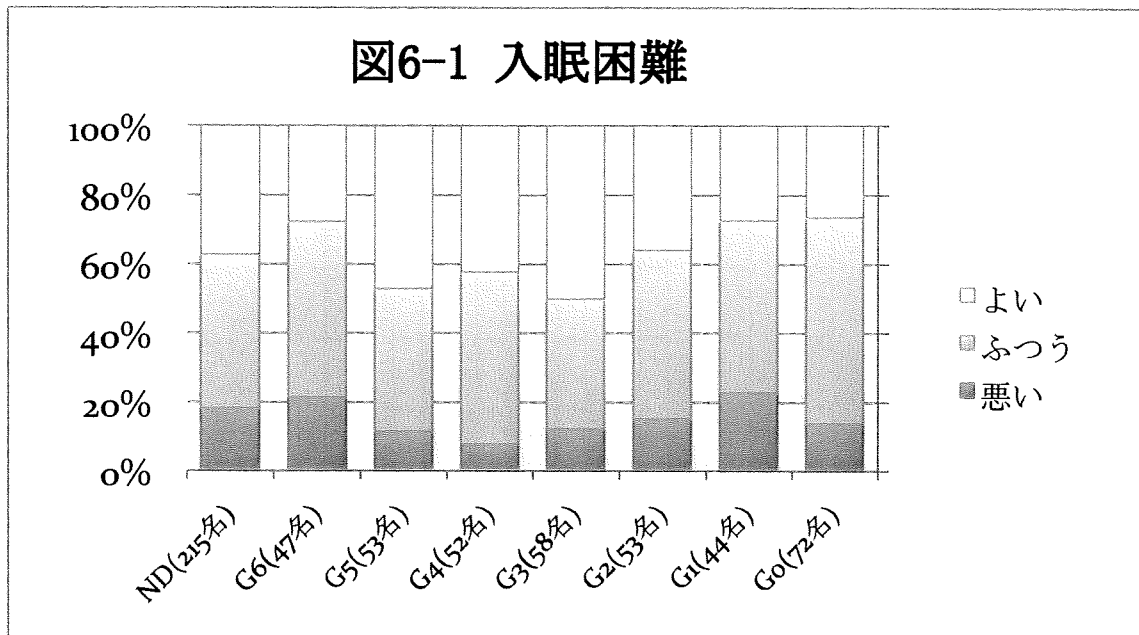


図 6-3: 認知機能グレードと睡眠障害の頻度

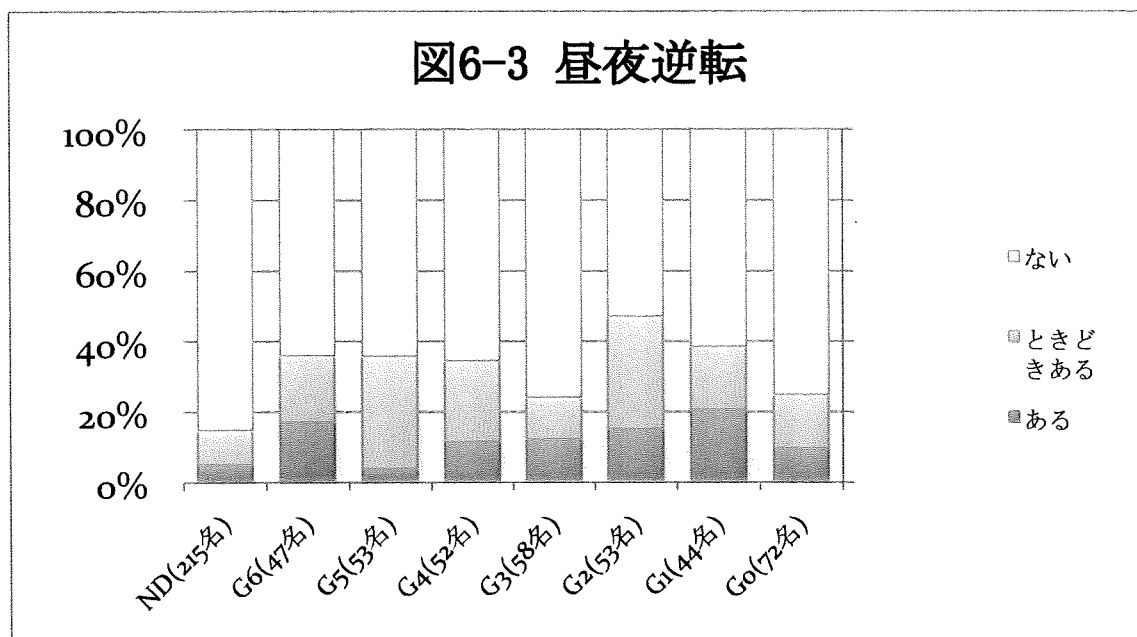


表2: 各 BPSD カテゴリおよび各睡眠障害の認知機能グレードとの関係

Table2 Prevalence(%) of BPSDs & sleep problems by grade of cognitive function

	N	BPSD 攻撃的行動	BPSD 行動の過多と変質	BPSD 不安と焦燥	BPSD その他の諸症状	入眠障害	睡眠維持障害	昼夜逆転	睡眠障害
ND	215	21 (9.8%)	68 (31.6%)	103 (47.9%)	70 (32.6%)	39 (18.1%)	63 (29.3%)	32 (14.9%)	91 (42.3%)
G6	47	12 (25.5%)	30 (63.8%)	37 (78.7%)	28 (59.6%)	10 (21.3%)	25 (53.2%)	17 (36.2%)	30 (63.8%)
G5	53	13 (24.5%)	41 (77.4%)	35 (66.0%)	28 (52.8%)	6 (11.3%)	17 (32.1%)	19 (35.8%)	27 (50.9%)
G4	52	18 (34.6%)	41 (78.8%)	42 (80.0%)	33 (63.5%)	4 (7.7%)	14 (26.9%)	18 (34.6%)	26 (50.0%)
G3	58	19 (32.8%)	43 (74.1%)	45 (77.6%)	34 (58.6%)	7 (12.1%)	22 (37.9%)	14 (24.1%)	31 (53.4%)
G2	53	26 (49.1%)	43 (81.1%)	45 (84.9%)	40 (75.5%)	8 (15.1%)	19 (35.8%)	25 (47.2%)	35 (66.0%)
G1	44	20 (45.5%)	39 (88.6%)	35 (79.5%)	34 (77.3%)	10 (22.7%)	21 (47.7%)	17 (38.6%)	29 (65.9%)
G0	72	19 (26.4%)	35 (48.6%)	31 (43.1%)	21 (29.2%)	10 (13.9%)	25 (34.7%)	18 (25.0%)	33 (45.8%)
Total	594	148 (24.9%)	34 (57.2%)	373 (62.8%)	288 (48.5%)	94 (15.8%)	206 (34.7%)	160 (26.9%)	302 (50.8%)
		$\chi^2=57.42^{**}$	$\chi^2=116.18^{**}$	$\chi^2=66.75^{**}$	$\chi^2=72.42^{**}$	$\chi^2=7.71$	$\chi^2=15.00^*$	$\chi^2=36.06^{**}$	$\chi^2=19.20^*$

** P<0.01

* P<0.05

図 7-1: G0-6 群と ND 群における BPSD カテゴリおよび各睡眠障害の頻度

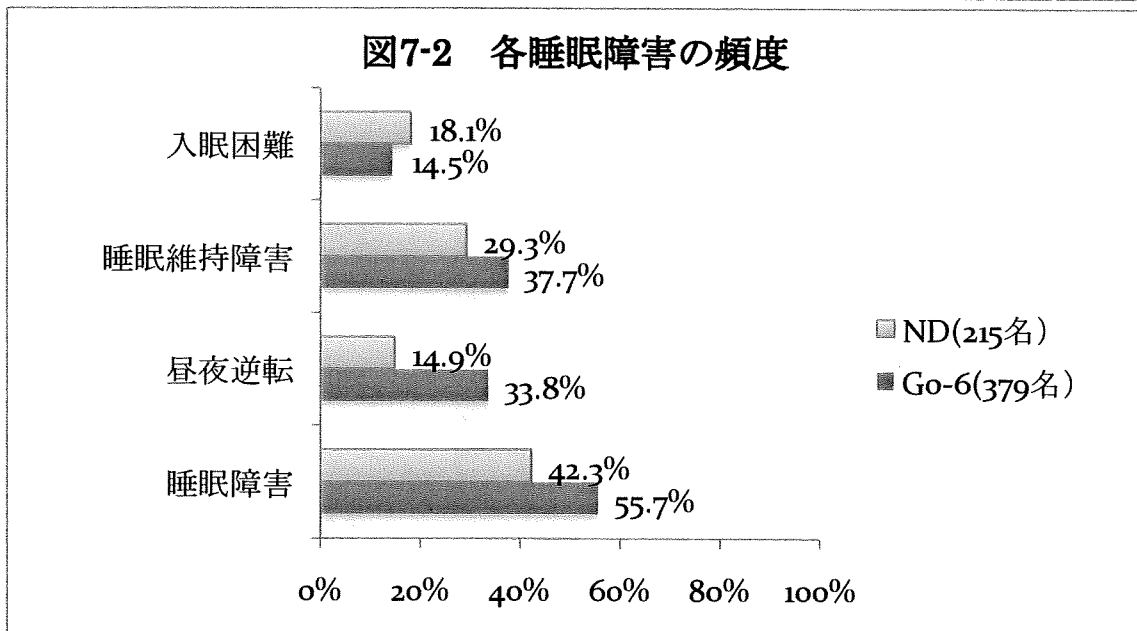
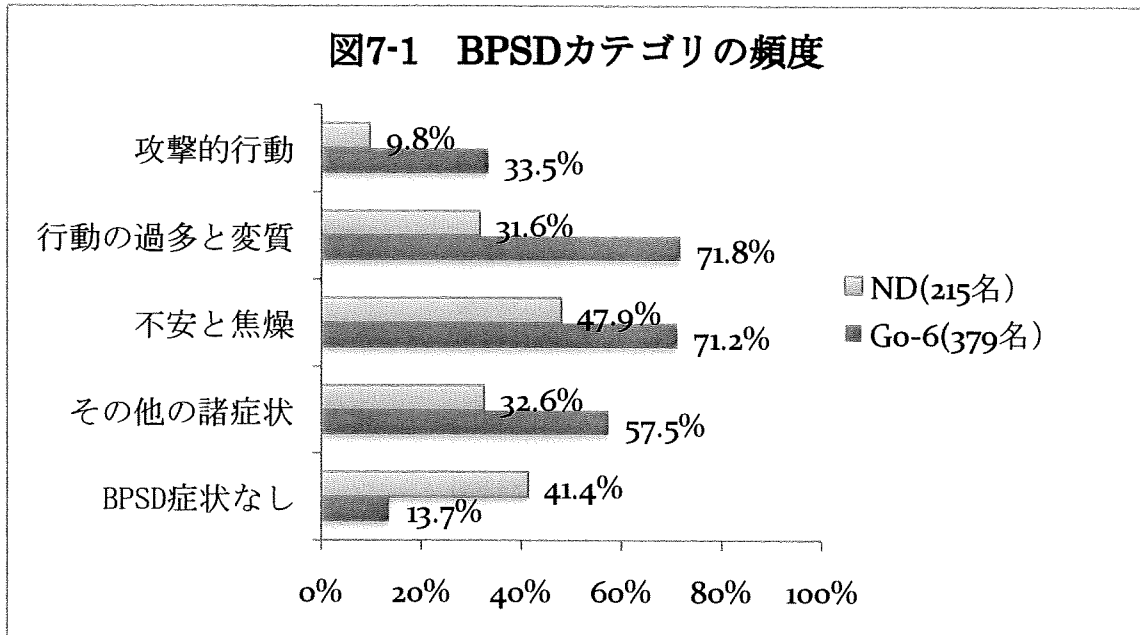


表 3: G0-6 群および ND 群における BPSD カテゴリおよび各睡眠障害の頻度

Table 3 Prevalence(%) of BPSDs & sleep problems by group of cognitive function

		ND(%)	G0-6(%)	p-value
		n=215	n=379	
Sex				0.04
	Male	73 (34.0%)	98 (25.9%)	
	Female	142 (66.0%)	281 (74.1%)	
Age class				p<0.01
	young old	38 (17.7%)	43 (11.3%)	
	old old	106 (49.3%)	131 (34.6%)	
	oldest old	71 (33.0%)	205 (54.1%)	
Place for care				p<0.01
	Home	195 (90.7%)	251 (66.2%)	
	GH	20 (9.3%)	128 (33.8%)	
BPSD 攻撃的行動				p<0.01
	No	194 (90.2%)	252 (66.5%)	
	Yes	21 (9.8%)	127 (33.5%)	
BPSD 行動の過多と変質				p<0.01
	No	147 (68.4%)	107 (28.2%)	
	Yes	68 (31.6%)	272 (71.8%)	
BPSD 不安と焦燥				p<0.01
	No	112 (52.1%)	109 (28.8%)	
	Yes	103 (47.9%)	270 (71.2%)	
BPSD その他の諸症状				p<0.01
	No	145 (67.4%)	161 (42.5%)	
	Yes	70 (32.6%)	218 (57.5%)	
入眠障害				0.25
	No	176 (81.9%)	324 (85.5%)	
	Yes	39 (18.1%)	55 (14.5%)	
睡眠維持障害				0.04
	No	152 (70.7%)	236 (62.3%)	
	Yes	63 (29.3%)	143 (37.7%)	
昼夜逆転				p<0.01
	No	183 (85.1%)	251 (66.2%)	
	Yes	32 (14.9%)	128 (33.8%)	
睡眠障害				p<0.01
	No	124 (57.7%)	168 (44.3%)	
	Yes	91 (42.3%)	211 (55.7%)	

図 8-1: G0-6 群と ND 群における BPSD 症状の頻度 (在宅および GH 別)
 攻撃的行動に含まれる各 BPSD 症状(4種)

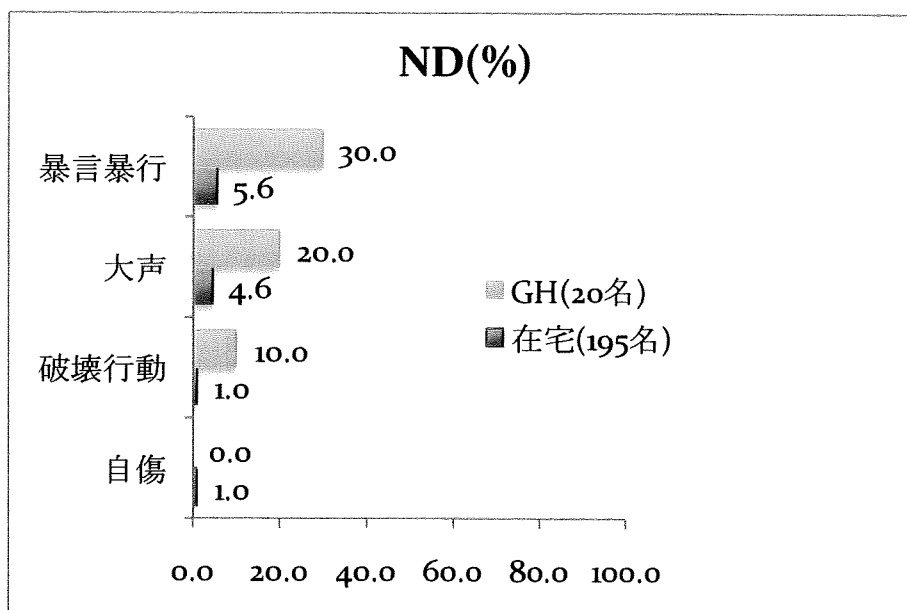
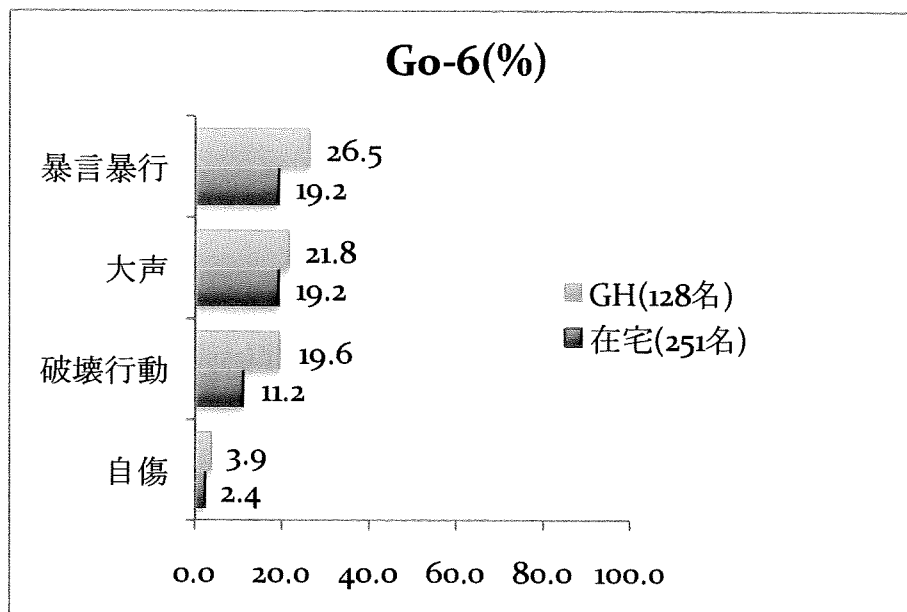


図 8-2: G0-6 群と ND 群における BPSD 症状の頻度 (在宅および GH 別)
 行動の過多と変質に含まれる各 BPSD 症状 (11 種)

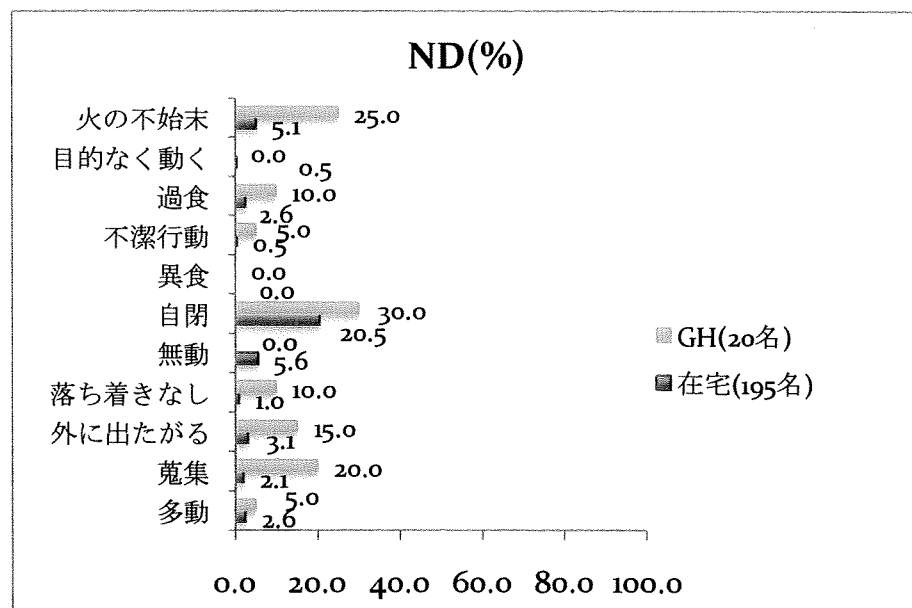
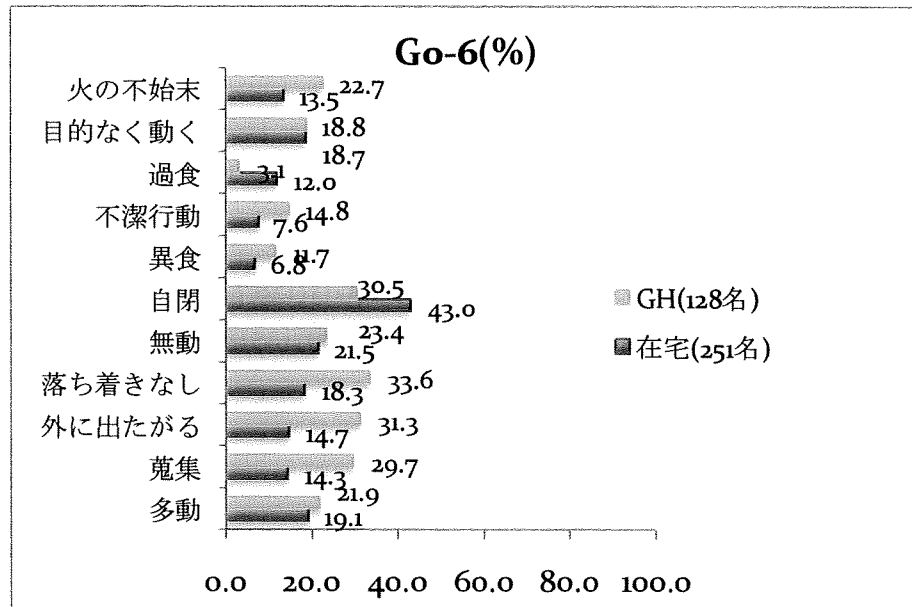


図 8-3: G0-6 群と ND 群における BPSD 症状の頻度 (在宅および GH 別)
不安と焦燥に含まれる各 BPSD 症状 (7 種)

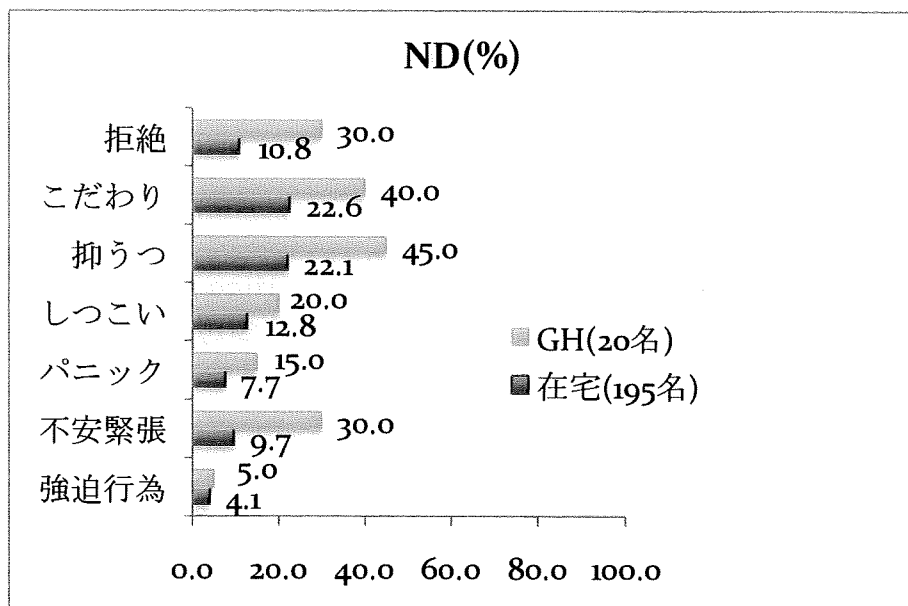
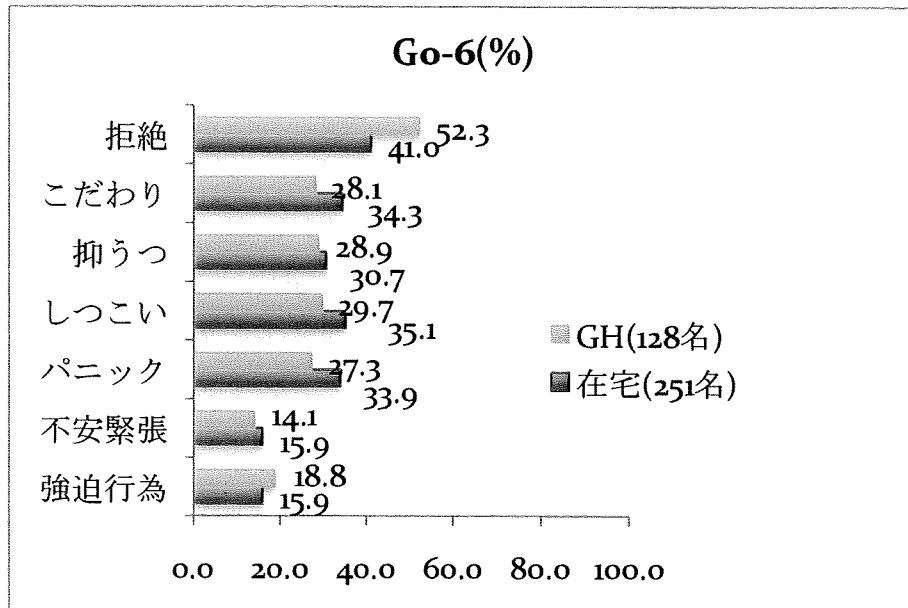


図 8-4: G0-6 群と ND 群における BPSD 症状の頻度 (在宅および GH 別)
不安と焦燥に含まれる各 BPSD 症状 (4 種)

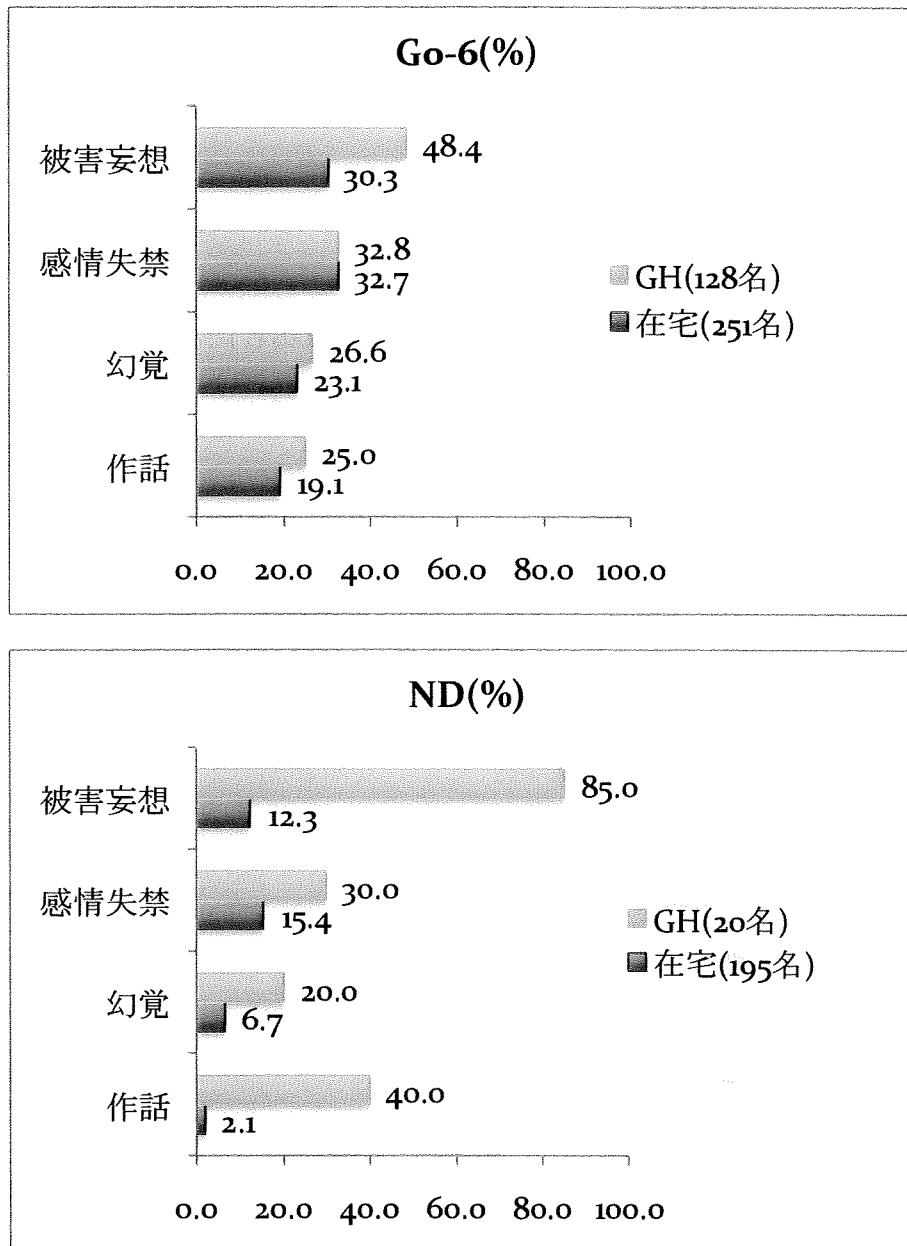


図 8-5: G0-6 群と ND 群における BPSD カテゴリの頻度 (在宅および GH 別)

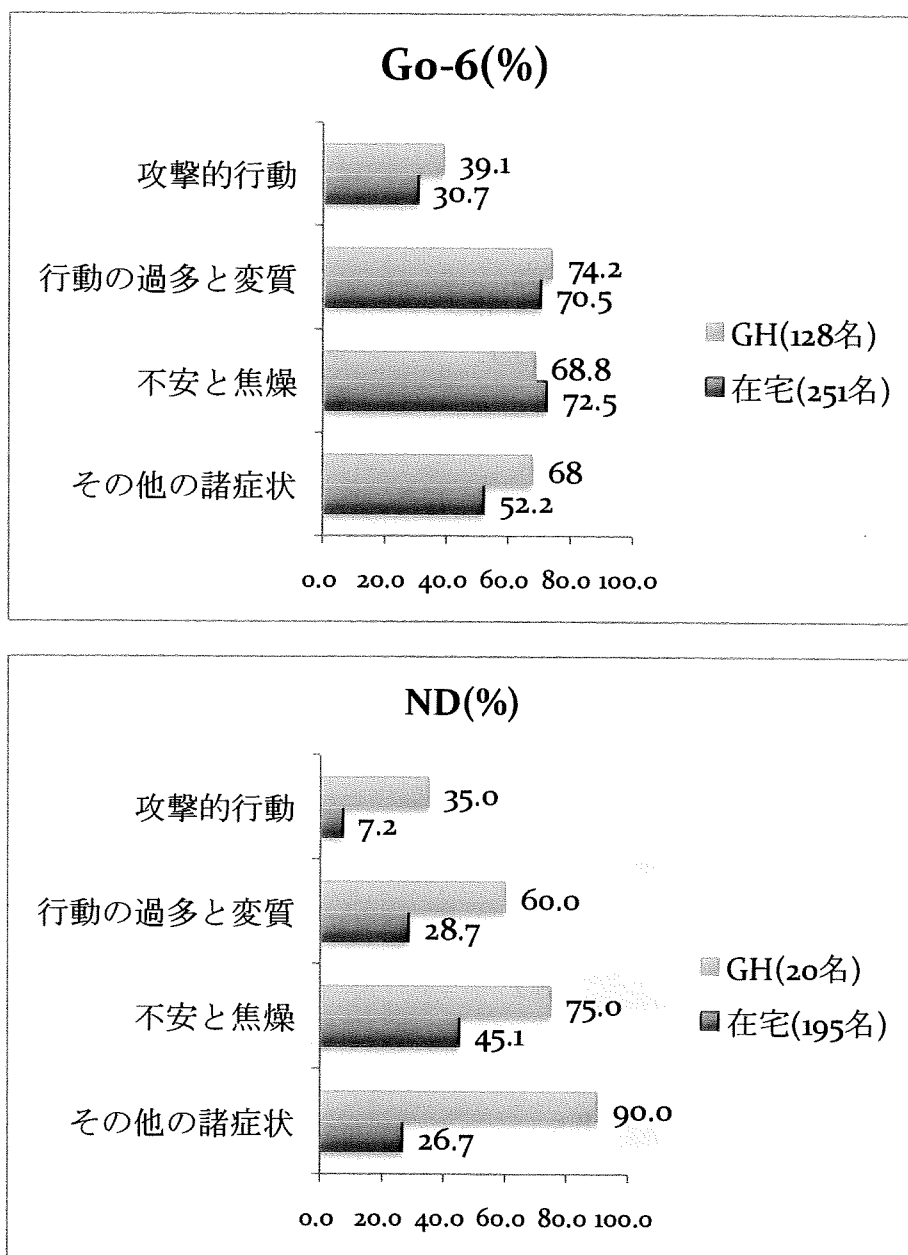


図 8-6: G0-6 群と ND 群における各睡眠障害の頻度 (在宅および GH 別)

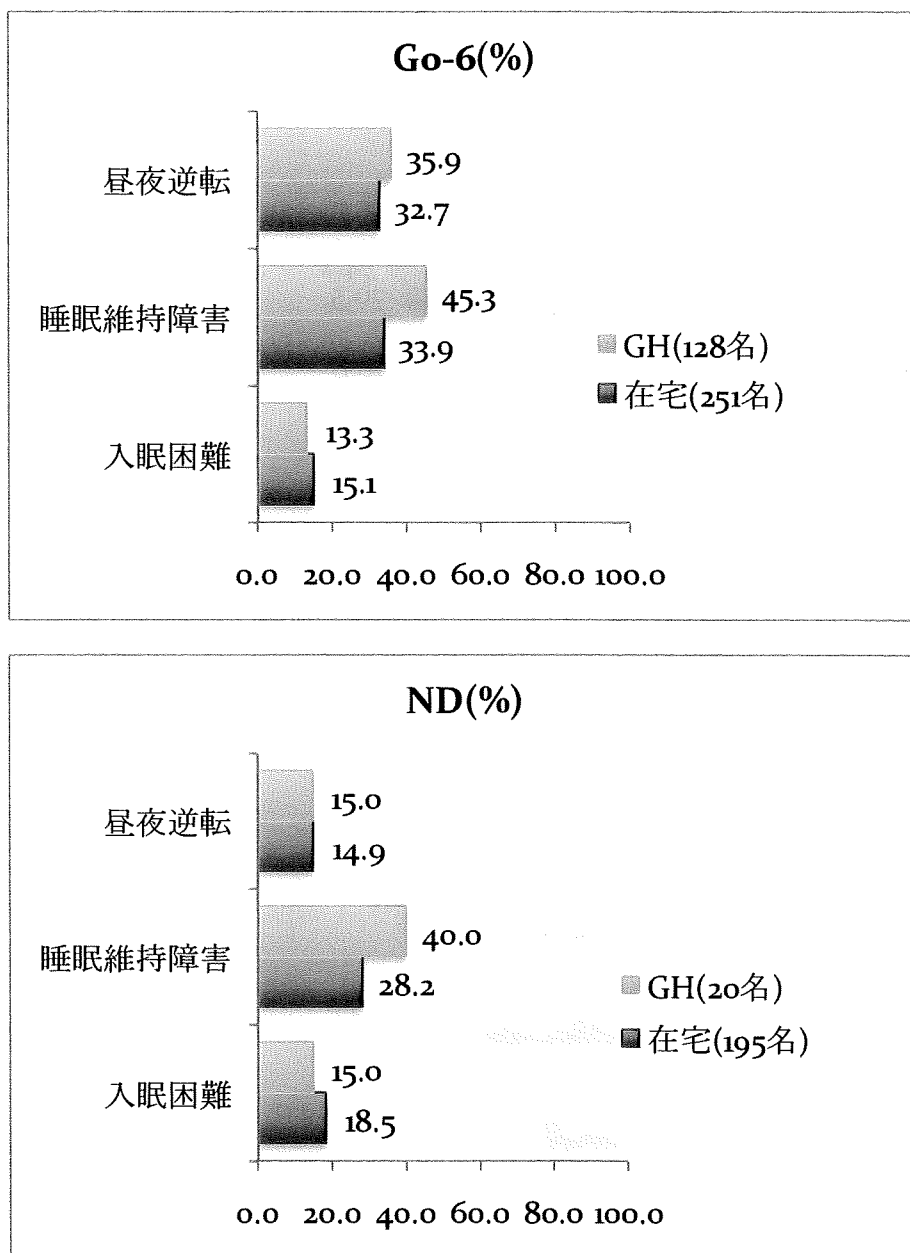
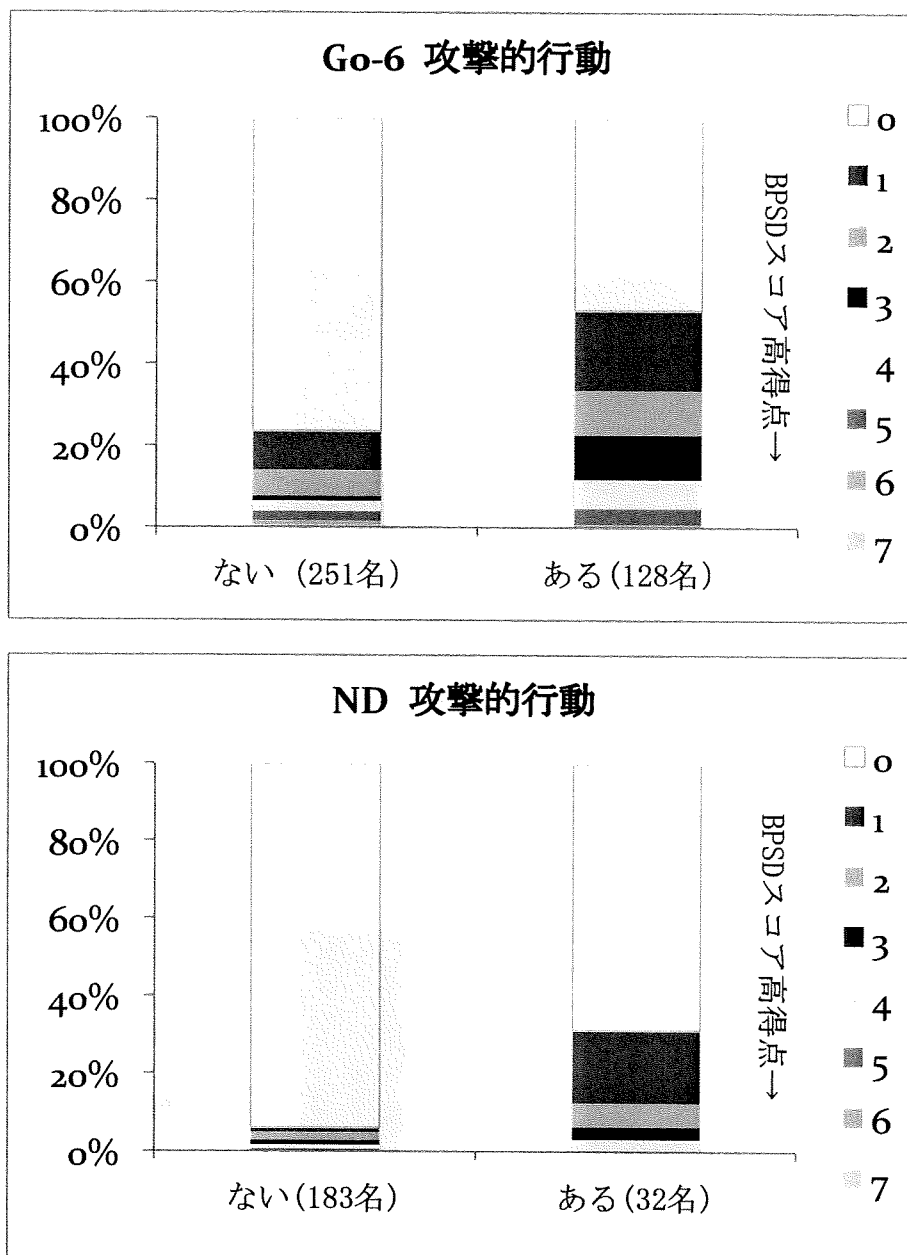
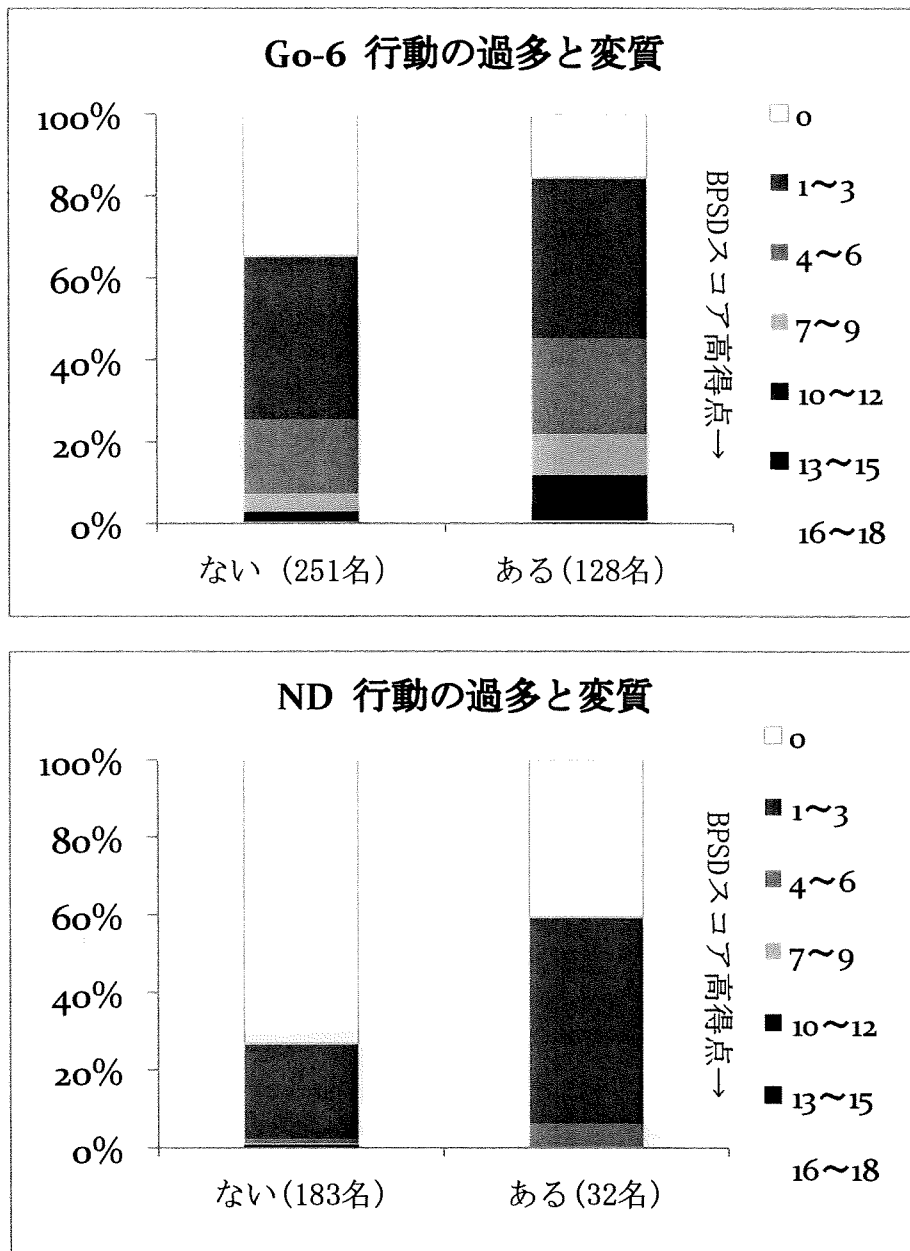


図 9-1: BPSD カテゴリ(攻撃的行動)と昼夜逆転の関連性



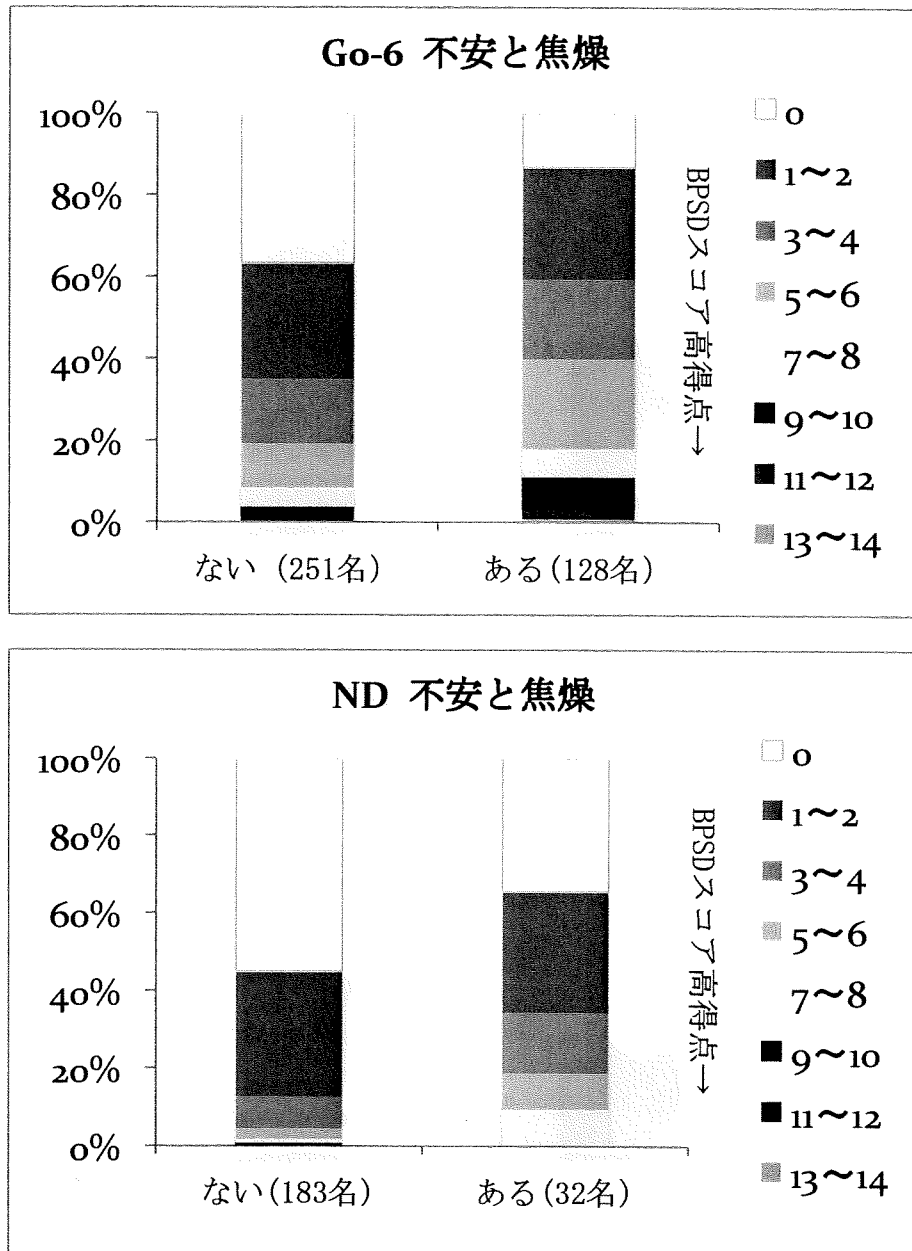
昼夜逆転の有無

図 9-2: BPSD カテゴリ(行動の過多と変質)と昼夜逆転の関連性



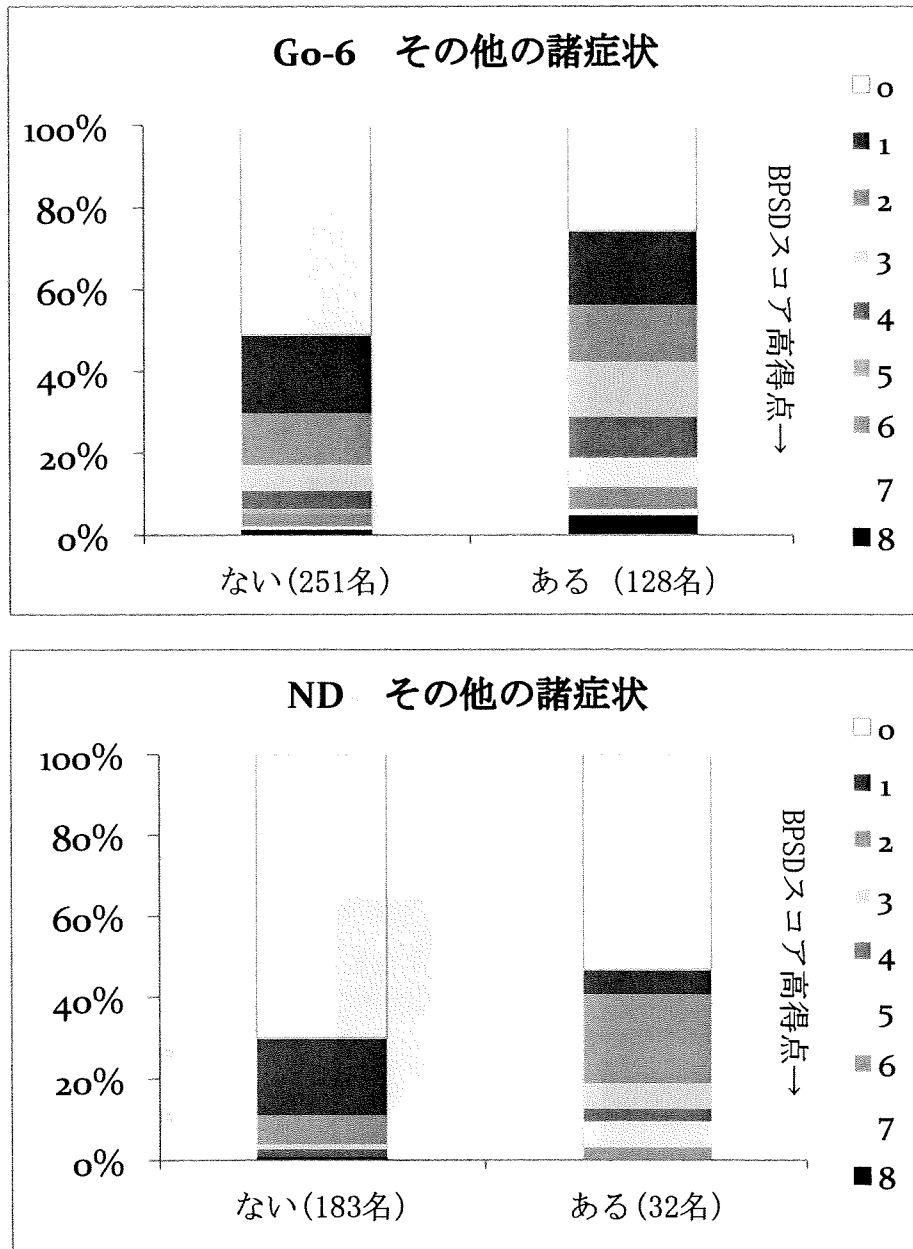
昼夜逆転の有無

図 9-3: BPSD カテゴリ(不安と焦燥)と昼夜逆転の関連性



昼夜逆転の有無

図 9-4: BPSD カテゴリ(その他の諸症状)と昼夜逆転の関連性



昼夜逆転の有無

表4: BPSD カテゴリと睡眠障害の関連性

Table 4 Prevalence(%) of BPSDs by group of cognitive function and sleep problems

	BPSD		P-value	BPSD		P-value	BPSD		P-value	BPSD		P-value
	攻撃的行動			行動の過多と変質			不安と焦燥			その他の諸症状		
	No	Yes		No	Yes		No	Yes		No	Yes	
Sex			0.53			0.08			0.57			<0.01
Male	125 (73.1%)	46 (26.9%)		83 (48.5%)	88 (51.5%)		67 (39.2%)	104 (60.8%)		106 (62.0%)	65 (38.0%)	
Female	321 (75.9%)	102 (24.1%)		171 (42.8%)	252 (59.6%)		154 (36.4%)	269 (63.6%)		200 (47.3%)	223 (52.7%)	
Age			0.47			0.19			<0.01			
young old	65 (80.2%)	16 (19.8%)		37 (45.7%)	44 (54.3%)		34 (42.0%)	47 (58.0%)		46 (56.8%)	35 (43.2%)	
old old	178 (75.1%)	59 (24.9%)		110 (46.4%)	127 (53.6%)		106 (44.7%)	131 (55.3%)		129 (54.4%)	108 (45.6%)	
oldest old	203 (73.6%)	73 (24.6%)		107 (38.8%)	169 (61.2%)		81 (39.3%)	195 (70.7%)		131 (47.5%)	145 (52.5%)	
group of cognitive function			<0.01			<0.01			<0.01			<0.01
ND	194 (90.2%)	21 (9.8%)		147 (68.4%)	68 (31.6%)		112 (52.1%)	103 (47.9%)		145 (67.4%)	70 (32.6%)	
G0-6	252 (66.5%)	127 (33.5%)		107 (28.2%)	272 (71.8%)		109 (28.8%)	270 (71.2%)		161 (42.5%)	218 (57.5%)	
入眠困難			0.05			0.17			0.04			0.04
No	383 (76.6%)	117 (23.4%)		220 (44.0%)	280 (56.0%)		195 (39.5%)	305 (61.0%)		267 (53.4%)	233 (46.6%)	
Yes	63 (67.0%)	31 (33.0%)		34 (36.2%)	60 (63.8%)		26 (27.7%)	68 (72.3%)		39 (41.5%)	55 (58.5%)	
睡眠維持障害			0.06			0.16			0.06			0.03
No	301 (77.6%)	87 (22.4%)		174 (44.8%)	214 (55.2%)		155 (39.9%)	233 (60.1%)		213 (54.9%)	175 (45.1%)	
Yes	145 (70.4%)	61 (29.6%)		80 (38.8%)	126 (61.2%)		66 (32.0%)	140 (68.0%)		93 (45.1%)	113 (54.9%)	
昼夜逆転			<0.01			<0.01			<0.01			<0.01
No	364 (83.9%)	70 (16.1%)		221 (50.9%)	213 (49.1%)		193 (44.5%)	241 (55.5%)		256 (59.0%)	178 (41.0%)	
Yes	82 (51.3%)	78 (48.8%)		33 (20.6%)	127 (79.4%)		28 (17.5%)	132 (82.5%)		50 (31.3%)	110 (68.8%)	
睡眠障害			<0.01			<0.01			<0.01			<0.01
No	248 (84.9%)	44 (15.1%)		148 (50.7%)	144 (49.3%)		132 (45.2%)	160 (54.8%)		182 (62.3%)	110 (37.7%)	
Yes	198 (65.6%)	104 (34.4%)		106 (35.1%)	196 (64.9%)		89 (29.5%)	213 (70.5%)		124 (41.1%)	178 (58.9%)	