

Table 1 Clinical characteristics of elderly depressive patients

Group	low uptake	normal uptake	<i>t</i>	<i>p</i>
Total (n)	14	38		
Sex (n) (male/female)	4/10	10/28		1.000
	(mean ± SD)	(mean ± SD)		
Age (years)	71.0 ± 5.3	70.2 ± 5.4	0.502	0.618
Age at onset (years)	65.1 ± 8.4	59.4 ± 13.5	1.461	0.150
Height (cm)	155.6 ± 8.4	154.6 ± 6.8	0.440	0.662
Weight (kg)	46.0 ± 8.6	46.6 ± 8.7	-0.243	0.809
Education (years)	12.1 ± 2.6	12.9 ± 2.5	-0.983	0.330
Parkinsonism (+/-)	8/6	7/31		0.013*
Visula hallucination (+/-)	2/12	0/38		0.069
Fluctuation of cognition (+/-)	1/13	1/37		0.470
RBD (+/-)	1/13	0/38		0.269
Parkinson disease (+/-)	4/10	0/38		0.004*
Dementia (+/-)	2/12	2/36		0.291
SSRI (+/-)	7/7	15/23		0.540
MIR (+/-)	4/10	14/24		0.746
TRN (+/-)	5/9	10/28		0.511
Ca blockers (+/-)	1/13	6/32		0.659
GAF	(mean ± SD)	(mean ± SD)		
at admission	34.7 ± 14.7	30.9 ± 14.4	0.843	0.403
at discharge	45.9 ± 19.4	57.0 ± 13.3	-2.327	0.066
improvement	11.2 ± 13.1	25.8 ± 18.8	-2.671	0.010*
MIBG uptake (H/M ratio)				
early phase	1.83 ± 0.34	3.30 ± 0.49	-10.29	<0.001*
late phase	1.42 ± 0.28	3.49 ± 0.79	-9.526	<0.001*
MIBG wash out rate (%)	44.8 ± 5.72	21.0 ± 10.2	8.25	<0.001*
PVH grade score [†]	0.92 ± 0.64	1.05 ± 0.87	-0.624	0.346
DSWMH grade score [†]	1.23 ± 0.93	1.45 ± 1.08	-0.523	0.523

*Significant differences.

low/normal uptake, patients with low/normal MIBG uptake.

Parkinsonism, suspected parkinsonism at admission.

Parkinson disease, diagnosed Parkinson disease at discharge.

Dementia, diagnosed dementia at discharge.

RBD, REM sleep behavior disorder.

SSRI, selective serotonin reuptake inhibitors; MIR, Mirtazapine; TRN, Trazodone.

Ca blockers, Calcium channel blockers

GAF, global assessment of functioning scale.

MIBG, meta-iodobenzylguanidine; H/M ratio, heart to mediastrum ration.

PVH, periventricular hyperintensity; DSWMH, deep and subcortical white matter hyperintensity.

[†]Head MRI was performed in 14 patients with low uptake and 37 patients with normal uptake.

Table 2 Comparison of HDRS between high and low MIBG uptake groups

Group		low uptake	normal uptake	t(U)	p
		(mean ± SD)	(mean ± SD)		
HDRS total score		26.6 ± 8.2	22.5 ± 6.7	1.839	0.072
HDRS item scores					
1. Depressed mood		3.0 ± 1.2	2.7 ± 1.3	(226.0)	0.390
2. Guilt		1.0 ± 1.4	1.6 ± 1.4	(340.0)	0.115
3. Suicide		1.1 ± 1.0	1.1 ± 1.1	(254.0)	0.796
4. Insomnia-early		1.4 ± 0.7	1.2 ± 0.8	(247.5)	0.679
5. Insomnia-middle		1.2 ± 1.0	1.1 ± 1.0	(237.0)	0.524
6. Insomnia-late		0.9 ± 0.9	0.8 ± 0.9	(248.0)	0.689
7. Work and activities		3.1 ± 1.3	2.8 ± 1.3	(229.0)	0.419
8. Retardation		1.9 ± 1.3	1.0 ± 1.1	(148.0)	0.011*
9. Agitation		0.7 ± 0.8	0.3 ± 0.6	(193.0)	0.064
10. Anxiety-psychic		2.6 ± 1.3	2.3 ± 1.1	(209.0)	0.215
11. Anxiety-somatic		2.5 ± 1.2	1.7 ± 1.1	(168.5)	0.037*
12. Symptoms: gastro-intestinal		1.2 ± 0.6	1.1 ± 0.8	(237.5)	0.520
13. Symptoms: general		1.6 ± 0.6	1.2 ± 0.6	(188.5)	0.076
14. Genital symptoms		1.1 ± 1.0	1.0 ± 1.0	(258.5)	0.866
15. Hypochondriasis		1.6 ± 1.4	1.0 ± 1.0	(195.5)	0.129
16. Loss of insight		1.1 ± 0.8	1.1 ± 0.9	(271.0)	0.913
17. Weight loss		0.5 ± 0.8	0.4 ± 0.8	(240.0)	0.490
HDRS factor scores	HDRS items				
Marcos 1: Inhibition and melancholic depression	1, 7, 8, 10, 14	11.7 ± 4.4	9.8 ± 3.4	1.658	0.104
Marcos 2: Insomnia	4, 5, 6	3.5 ± 2.2	3.1 ± 1.9	(227.5)	0.420
Marcos 3: Somatic and psychic anxiety	11, 12, 13, 15	6.9 ± 2.8	5.0 ± 2.1	2.629	0.011*
Panches 1: Somatic anxiety/somatization factor	4, 5, 6, 11, 13, 15	9.2 ± 3.2	7.1 ± 2.7	2.417	0.019*
Panches 2: Psychic anxiety dimension	2, 9, 10, 17	4.9 ± 2.4	4.6 ± 2.4	0.298	0.767
Panches 3: Pure depressive dimension	1, 7, 8	8.2 ± 3.3	6.5 ± 2.7	(162.5)	0.032*
Panches 4: Anorexia factor	12, 16	2.3 ± 1.3	2.2 ± 1.4	(253.5)	0.791

*Significant differences.

low/normal uptake, patients with low/normal MIBG uptake.

HDRS, Hamilton depression rating scale.