

表I-1 (continue). NH residents death (2001)

Desirict Characteristics	n	(%)
Care Health	145	(35.7)
Facilities for the Elderly	104	(25.6)
	92	(22.7)
	65	(16.0)
Designated	83	(20.4)
Hospital Long	123	(30.3)
Term Care Units	111	(27.3)
to Care Medical	89	(21.9)
Long term Care	142	(35.0)
Facility	80	(19.7)
Beds/100,000	98	(24.1)
	86	(21.2)
Nursing Home and	144	(35.5)
Care Health	84	(20.7)
Facilities for	102	(25.1)
the Elderly	76	(18.7)
HospitalBeds/100	92	(22.7)
,000 people	123	(30.3)
	80	(19.7)
	111	(27.3)
ClinicBeds/100,0	150	(36.9)
00 elderly	83	(20.4)
	90	(22.2)
	83	(20.4)
Hospital and	119	(29.3)
ClinicBeds/100,0	99	(24.4)
00 elderly	83	(20.4)
	105	(25.9)
Emergency	132	(32.5)
Hospital	118	(29.1)
	67	(16.5)
	89	(21.9)
Number of	84	(20.7)
physician/100,00	91	(22.4)
0 people	92	(22.7)
	139	(34.2)

表1-2. NH residents death monovariate analysis(2001)

Resident Characteristics	death in NH (%)		death in Hospitals (%)		2*2 OR (95%CI)		p
	n	n (%)	n	n (%)			
Total	182		224				
age							
<64	3	(1.6)	4	(1.8)	reference	1.960	
65-74	8	(4.4)	21	(9.4)	reference	reference	
75-84	43	(23.6)	63	(28.1)	1.632	1.792 (0.732 - 4.383)	
85-94	98	(53.8)	109	(48.6)	4.013	2.360 (1.019 - 5.468)	
95≤	30	(16.5)	27	(12.1)	4.889	2.917 (1.129 - 7.533)	
missing	1	(0.5)	3	(1.3)	1.335		
median (range)	89	(63-102)	87	(60-103)			0.005*
Sex							
man	42	(23.1)	63	(28.1)	1.335	1.304 (0.831 - 2.047)	0.248
woman	140	(76.9)	161	(71.9)	reference	reference	
Length of Stay							
<0.5year	14	(7.6)	23	(10.3)	0.845	1.552 (0.608 - 3.958)	
0.5-0.92year	17	(9.3)	18	(8.0)	0.948	1.450 (0.686 - 3.061)	
1-2.92years	60	(33.0)	68	(30.4)	0.005	0.971 (0.427 - 2.210)	
3-4.92years	26	(14.2)	44	(19.6)	0.546	1.339 (0.618 - 2.901)	
5-9.92years	44	(24.1)	54	(24.1)	1.585	1.917 (0.696 - 5.278)	
10-14.92years	14	(7.5)	12	(5.3)	1.554	2.300 (0.621 - 8.520)	
15years≤	7	(3.8)	5	(2.2)			
missing	5	(2.7)	6	(2.7)			
median (range)(months)	37.0	(0.7-318.6)	38.6	(0.8-275)			0.283*
Living Place before NH							
home	55	(30.2)	67	(29.9)	0.364	1.175 (0.696 - 1.986)	
facility	68	(37.4)	86	(38.4)	0.237	1.132 (0.687 - 1.865)	
hospital or clinic	44	(24.2)	63	(28.1)	0.396	reference	0.821
other place	2	(1.1)	0	0.0			
missing	13	(7.1)	8	(3.6)			
Carelevel							
1	6	(3.3)	8	(3.6)	reference	reference	
2	6	(3.3)	26	(11.6)	2.985	0.308 (0.080 - 1.185)	
3	25	(13.7)	34	(15.2)	0.001	0.980 (0.302 - 3.183)	
4	36	(19.8)	66	(29.5)	0.305	0.727 (0.235 - 2.252)	
5	109	(59.9)	90	(40.2)	0.748	1.615 (0.545 - 4.785)	
median (range)	5	(1-5)	4	(1-5)			<0.001*
Cognitive dysfunction							
0, normal	9	(4.9)	6	(2.7)	reference	reference	
1, I	5	(2.7)	15	(6.7)	4.375	0.222 (0.054 - 0.910)	
2, II	17	(9.3)	29	(12.9)	2.456	0.391 (0.121 - 1.266)	
3, III	48	(26.4)	65	(29.0)	1.646	0.492 (0.167 - 1.494)	
4, IV	59	(32.4)	83	(37.1)	1.881	0.474 (0.163 - 1.378)	
5, M	43	(23.6)	22	(9.8)	0.203	1.303 (0.412 - 4.123)	
unknown	1	(0.5)	4	(1.8)			
median (range)	4	(0-5)	3	(0-5)			0.008*
ADL							
0, normal	1	(0.5)	0	0.0			
1, J	1	(0.5)	2	(0.9)	1.181	reference	
2, A	11	(6.0)	26	(11.6)	0.674	1.403 (0.625 - 3.153)	
3, B	38	(20.9)	64	(28.6)	5.584	2.401 (1.157 - 4.979)	
4, C	130	(71.4)	128	(57.1)			
unknown	1	(0.5)	4	(1.8)			
median (range)	4	(0-4)	4	(1-4)			0.004*

表 1-2 (continued). NI residents death (2001)

Resident Characteristics	death in NI n	death in NI (%)	death in Hospitals n	death in Hospitals (%)	χ^2	OR (95% C.I.)	p
Transfer	1. independent	2	(1.1)	13	(5.8)	0.289	
	2. need to be looking after	8	(4.4)	14	(6.3)	reference.	
	3. partially-dependent	26	(14.3)	24	(10.7)	1.489	1.896 (0.681 - 5.279)
4. total-dependent unknown	143	(78.6)	168	(75.0)	0.767	1.490 (0.611 - 3.634)	
	3	(1.6)	5	(2.2)			
	4	(1-4)	4	(1-4)			0.279*
	median (range)						
Eat	1. independent	17	(9.3)	25	(11.2)	reference.	
	2. need to be looking after	17	(9.3)	32	(14.3)	0.323	0.781 (0.334 - 1.830)
	3. partially-dependent	23	(12.6)	39	(17.4)	0.121	0.867 (0.389 - 1.936)
4. total-dependent unknown	122	(67.0)	123	(54.9)	1.247	1.459 (0.752 - 2.830)	
	3	(1.6)	5	(2.2)			
	4	(1-4)	4	(1-4)			0.029*
	median (range)						
Swallow	1. possible	38	(20.9)	61	(27.2)	reference.	
	2. need to be looking after	83	(45.6)	98	(43.8)	1.456	1.360 (0.826 - 2.239)
	3. impossible unknown	58	(31.9)	60	(26.8)	2.581	1.552 (0.903 - 2.666)
median (range)	2	(1.6)	5	(2.2)			
	3	(1-3)	2	(1-3)			0.210*
	4	(2.2)	8	(3.6)	0.242		
	median (range)						
Capability of cleaning after excretion	1. independent	4	(2.2)	8	(3.6)	reference.	
	2. need to be looking after	3	(1.6)	6	(2.7)	0.833	
	3. partially-dependent	15	(8.2)	25	(11.2)	1.190	1.454 (0.742 - 2.847)
4. total-dependent unknown	157	(86.3)	180	(80.4)			
	3	(1.6)	5	(2.2)			
	4	(1-4)	4	(1-4)			0.124*
	median (range)						
Capability of cleaning after urination	1. independent	6	(3.3)	8	(3.6)	reference.	
	2. need to be looking after	1	(0.5)	7	(3.1)	0.190	
	3. partially-dependent	14	(7.7)	25	(11.2)	0.212	0.747 (0.216 - 2.567)
4. total-dependent unknown	159	(87.4)	179	(79.9)	0.095	1.184 (0.403 - 3.483)	
	2	(1.1)	5	(2.2)			
	4	(1-4)	4	(1-4)			0.067*
	median (range)						
Cognition of call of nature	1. possible	16	(8.8)	34	(15.2)	reference.	
	2. sometimes possible	14	(7.7)	26	(11.6)	0.090	1.144 (0.474 - 2.759)
	3. impossible	150	(82.4)	159	(71.0)	4.738	2.005 (1.072 - 3.750)
unknown	2	(1.1)	5	(2.2)			
	3	(1-3)	3	(1-3)			0.010*
	median (range)						
	4	(7.7)	28	(12.5)	reference.		
Cognition of call of urination	1. possible	17	(9.3)	24	(10.7)	0.586	1.417 (0.581 - 3.456)
	2. sometimes possible	149	(81.9)	167	(74.6)	4.101	2.342 (1.028 - 5.338)
	3. impossible	2	(1.1)	5	(2.2)		
unknown	3	(1-3)	3	(1-3)			0.095*
	median (range)						
	40	(22.0)	52	(23.2)	reference.		
	140	(76.9)	167	(74.6)	0.129	0.918 (0.574 - 1.467)	0.720
Reply Birthday	impossible	2	(1.1)	5	(2.2)		
	unknown						

表1-2(continue.). NI residents death (2001)

Resident Characteristics	death in NI (%)		death in Hospitals (%)		Z ²	OR (95%CI)	P
	n	(%)	n	(%)			
rehabilitation	47	(95.8)	45	(20.1)	1.884	1.385 (0.870 - 2.204)	0.170
no rehabilitation	135	(74.2)	179	(79.3)			
Physical rehabilitation	6	(3.3)	3	(1.3)	2.511	2.511	0.31*
no	176	(96.7)	221	(98.7)			
PT	17	(9.3)	12	(5.4)	2.402	1.820 (0.853 - 3.882)	0.121
no	165	(90.7)	212	(94.6)			
OT	2	(1.1)	3	(1.3)	0.819	0.819	1.000*
no	180	(98.9)	221	(98.7)			
ST	1	(0.5)	1	(0.4)	1.232	1.232	1.000*
no	181	(99.5)	223	(99.6)			
Swallowing	1	(0.5)	1	(0.4)	1.232	1.232	1.000*
rehabilitation	181	(99.5)	223	(99.6)			
no	16	(8.8)	19	(8.5)	0.012	1.040 (0.519 - 2.085)	0.912
ADL rehabilitation	166	(91.2)	205	(91.5)			
yes	22	(12.1)	28	(12.5)	0.016	0.963 (0.530 - 1.747)	0.900
no	160	(87.9)	196	(87.5)			

表1-2(continue.). NI residents death (2001)

Resident Characteristics	death in NI (%)		death in Hospitals (%)		Z ²	OR (95%CI)	P
	n	(%)	n	(%)			
Basic Disease	0	0.0	1	(0.4)			1.000*
I. Certain infectious and parasitic diseases	13	(7.1)	14	(6.5)	0.088	1.126 (0.515 - 2.461)	0.767
II. Neoplasms	6	(3.3)	4	(1.8)	1.831	1.831	0.522*
IV. Endocrine, nutritional and metabolic diseases							
V. Mental and behavioural disorders	26	(14.3)	41	(18.3)	1.421	0.722 (0.422 - 1.284)	0.233
VI. the nervous system	7	(3.8)	14	(6.3)	1.305	0.585 (0.233 - 1.468)	0.253
Parkinson's disease	3	(1.6)	4	(1.8)	0.585	0.585	1.000*
Alzheimer's disease	3	(1.6)	7	(3.1)	0.900	0.900	0.522*
VII. the eye and adnexa	1	(0.5)	0	0.0			0.454*
IX. the circulatory system	85	(46.7)	95	(42.4)	0.442	1.145 (0.768 - 1.706)	0.506
HT	10	(5.5)	7	(3.1)	1.290	1.760 (0.663 - 4.670)	0.236
IHD	9	(4.9)	4	(1.8)	2.796	2.796	0.091*
Stroke	55	(30.2)	72	(32.1)	0.335	0.882 (0.576 - 1.350)	0.678
X. the respiratory system	11	(6.0)	18	(8.0)	0.706	0.717 (0.330 - 1.557)	0.401
Pneumonia	9	(4.9)	14	(6.3)	0.388	0.761 (0.322 - 1.798)	0.572
XI. the digestive system	4	(2.2)	4	(1.8)	1.222	1.222	1.000*
XII. the skin and subcutaneous tissue	1	(0.5)	0	0.0			0.454*
XIII. the musculoskeletal system and connective tissue	13	(7.1)	11	(4.9)	0.791	1.454 (0.637 - 3.317)	0.374
XIV. the genitourinary system	2	(1.1)	4	(1.8)	0.597	0.597	0.633*
XVII. Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	6	(3.3)	1	(0.4)	7.430	7.430	0.050*
XIX. Injury, poisoning and certain other consequences of missing	3	(1.6)	7	(3.1)	0.507	0.507	0.358*
4	(2.2)	10	(4.5)				

表1-2(continue). NH residents death (2001)

Resident Characteristics	death in NH n (%)	death in Hospitals n (%)	Z ²	OR (95%CI)	P
Basic Disease					
I. Certain infectious and parasitic diseases	0 (0.0)	3 (1.3)			0.254*
II. Neoplasms	16 (8.5)	26 (11.6)	1.015	0.714 (0.371 - 1.375)	0.314
IV. Endocrine, nutritional and metabolic diseases	15 (8.2)	11 (4.9)		1.698	0.224*
		0.0			
V. Mental and behavioural disorders	53 (29.1)	58 (25.9)	0.342	1.140 (0.784 - 1.771)	0.559
VI. the nervous system	16 (8.8)	22 (9.8)	0.185	0.862 (0.438 - 1.696)	0.667
Parkinson's disease	3 (1.6)	4 (1.8)		0.900	1.000*
Alzheimer's disease	4 (2.2)	8 (3.6)		0.592	0.558*
VII. the eye and adnexa	2 (1.1)	0			0.206
IX. the circulatory system	109 (59.9)	125 (55.8)	0.322	1.125 (0.750 - 1.688)	0.570
HT	23 (12.6)	18 (8.0)	2.111	1.616 (0.846 - 3.087)	0.146
IHD	10 (5.5)	16 (7.1)	0.542	0.737 (0.326 - 1.662)	0.462
Stroke	71 (39.0)	85 (37.9)	0.001	1.007 (0.671 - 1.512)	0.973
X. the respiratory system	17 (9.3)	34 (15.2)	3.448	0.559 (0.303 - 1.033)	0.063
Pneumonia	10 (5.5)	22 (9.8)	2.818	0.519 (0.242 - 1.116)	0.093
XI. the digestive system	12 (6.6)	11 (4.9)	91.907	0.067 (0.039 - 0.117)	0.502
XII. the skin and subcutaneous tissue	2 (1.1)	0			0.201*
XIII. the musculoskeletal system and connective tissue	21 (11.5)	21 (9.4)	0.400	1.229 (0.648 - 2.331)	0.527
XIV. the genitourinary system	3 (1.6)	14 (6.3)		0.245	0.023*
XVII. Congenital malformations, deformations	1	0			0.454
XVIII. Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	14 (7.7)	4 (1.8)		4.482	0.006*
XIX. Injury, poisoning and certain other consequences of external causes	7 (3.8)	15 (6.7)	1.737	0.543 (0.219 - 1.347)	0.188
MISSING	4 (2.2)	10 (4.5)			

表1-2(continue). NI residents death (2001)

Facility Characteristics	death in NI n (%)	death in Hospitals n (%)	z 2	OR (95%CI)	p
Owner					
Prefecture	4 (2.2)	4 (1.8)			
City	13 (7.1)	21 (9.4)	1.042	1.328 (0.771 - 2.287)	0.307
Public corporation	14 (7.7)	5 (2.2)			
Social Welfare Committee	3 (1.6)	1 (0.4)		reference.	
Social Welfare Corporation(except Social Welfare Committee)	148 (81.3)	193 (86.2)			
Manager					
Prefecture	0 (0.0)	0 (0.0)			
City	8 (4.4)	10 (4.5)	1.385	1.515 (0.758 - 3.028)	0.239
Public corporation	11 (6.0)	6 (2.7)			
Social Welfare Committee	4 (2.2)	1 (0.4)		reference.	
Social Welfare Corporation(except Social Welfare Committee)	159 (87.4)	207 (92.4)			
Year of Foundation					
before 1980	60 (33.0)	62 (27.7)		reference.	
1980's	50 (27.5)	59 (26.3)	0.253	0.876 (0.522 - 1.489)	
1990's	67 (36.8)	92 (41.1)	1.382	0.753 (0.468 - 1.209)	
2000's	5 (2.7)	11 (4.9)	1.825	0.470 (0.157 - 1.406)	
median(range)	1985 (1961-2000)	1988 (1968-2000)			0.043*
Number of Beds					
<50	4 (2.2)	3 (1.3)		reference.	
<80	78 (42.9)	94 (42.0)	1.607	1.607 (0.765 - 3.337)	
<100	33 (18.1)	52 (23.2)	0.987	0.765 (0.451 - 1.298)	
<150	55 (30.2)	64 (28.0)	0.021	1.036 (0.648 - 1.655)	
150<=	12 (6.6)	11 (4.9)	0.380	1.315 (0.551 - 3.137)	
median(range)	80 (30-160)	80 (30-220)			0.939*
Mean Care Level					
<3.25	29 (15.9)	52 (23.2)		reference.	
<3.48	42 (23.1)	64 (28.6)	0.284	1.177 (0.647 - 2.140)	
<3.72	39 (21.4)	61 (27.2)	0.195	1.146 (0.625 - 2.102)	
3.72<=	72 (39.6)	47 (21.0)	11.764	2.747 (1.542 - 4.893)	
median(range)	3.61 (2.62-4.33)	3.46 (2.64-4.32)			0.001*
Percentage of residents who pay on Discount Rate					
no	85 (46.7)	101 (45.1)		reference.	
0	21 (11.5)	39 (17.4)	0.958	1.321 (0.757 - 2.306)	
<5	31 (17.0)	31 (13.8)	0.365	0.777 (0.342 - 1.763)	
<10	10 (5.5)	17 (7.6)	0.187	1.321 (0.374 - 4.663)	
<15	5 (2.7)	5 (2.2)	2.010	1.761 (0.805 - 3.850)	
<30	16 (8.8)	12 (5.4)	0.005	0.973 (0.467 - 2.030)	
30<=	14 (7.7)	19 (8.5)			
median(range)	4 (0-96.7)	3.3 (0-96.6)			0.222*

表1-2 (continued). NI residents death (2001)

Facility Characteristics	death in NI n (%)	death in Hospitals n (%)	z 2	OR (95%CI)	p
single room per total beds	82 (45.1)	82 (36.6)		reference.	
<30%	28 (15.4)	51 (22.8)	4.560	0.549 (0.317 - 0.952)	
<45%	7 (3.8)	17 (7.6)	3.645	0.412 (0.166 - 1.024)	
<60%	2 (1.1)	3 (1.3)	0.194	0.657 (0.110 - 4.049)	
60%<	0	2 (0.9)	0.770	0.727 (0.387 - 1.481)	
missing	63 (34.6)	69 (30.8)			
median(range)	8 (0.77-56.0)	12 (0.77-76)			0.005*
full-time	23 (12.6)	22 (9.8)	0.808	1.328 (0.715 - 2.466)	0.368
0	159 (87.4)	202 (90.2)		reference.	
Full-time equivalent physician	104 (57.1)	117 (52.2)		reference.	
0.2%<	78 (42.9)	107 (47.8)	0.976	0.820 (0.553 - 1.215)	
median(range)	0.1 (0.1-2.8)	0.1 (0.1-3)			0.556*
residents number per a nurse	32 (17.6)	53 (23.7)	3.808	0.578 (0.383 - 1.002)	
<16.6	41 (22.5)	43 (19.2)	0.110	0.912 (0.529 - 1.573)	
<20.8	40 (22.0)	62 (27.7)	3.310	0.617 (0.367 - 1.038)	
<25.0	69 (37.9)	66 (29.5)		reference.	
25.0<	22.6 (10.7-81.7)	21.3 (10.3-58.8)			0.040*
residents number per a nurse	46 (25.3)	69 (30.8)	3.603	0.578 (0.328 - 1.018)	
more than xi.5 of the rule	33 (18.1)	51 (22.8)	3.446	0.561 (0.304 - 1.033)	
xi.25~xi.5 over the rule	58 (31.9)	65 (29.0)	0.822	0.773 (0.444 - 1.348)	
~xi.25 under the rule	45 (24.7)	39 (17.3)		reference.	0.034*
<60%	56 (30.8)	61 (27.2)		reference.	
nurse 60-99%	36 (19.8)	66 (29.5)	3.534	0.594 (0.345 - 1.022)	
100%	90 (49.5)	97 (43.3)	0.002	1.011 (0.636 - 1.605)	
median(range)	97.6 (0-100)	87.3 (0-100)			0.505*
residents number pre a care worker	41 (22.5)	48 (21.4)	0.005	0.979 (0.554 - 1.729)	
<2.64	58 (31.9)	63 (28.1)	0.040	1.055 (0.623 - 1.786)	
<2.92	35 (19.2)	58 (25.9)	1.610	0.691 (0.391 - 1.223)	
<3.17	48 (26.4)	56 (24.6)		reference.	
3.17<	2.8 (1.8-3.9)	2.9 (1.9-6.1)			0.976*
median(range)	40 (22.0)	47 (21.0)	0.241	1.154 (0.652 - 2.042)	
<2.31	41 (22.5)	53 (23.7)	0.028	1.049 (0.599 - 1.837)	
<2.56	56 (30.8)	63 (28.1)	0.481	1.205 (0.711 - 2.041)	
<2.78	45 (24.7)	61 (27.2)		reference.	
2.78<	2.6 (1.7-3.8)	2.6 (1.6-4.7)			0.896*
median(range)	5 (2.7)	13 (5.8)	0.009	0.940 (0.259 - 3.417)	
residents number pre a care worker or nurse	51 (28.0)	57 (25.4)	3.249	2.187 (0.934 - 5.122)	
more than xi.5 of the rule	117 (64.3)	132 (58.9)	3.591	2.167 (0.974 - 4.821)	
xi.25~xi.5 over the rule	9 (4.9)	22 (9.8)		reference.	0.690*
~xi.25 under the rule	97 (53.3)	123 (54.9)	0.105	0.937 (0.633 - 1.387)	
Discount	85 (46.7)	101 (45.1)		reference.	0.746
NoDiscount					

表1-2(Continue). NI residents death (2001)

District Characteristics		death in NH (n)	death in hospitals (n)	χ^2	OR (95%CI)	p
Geographic Region	Hokkaido	4	18	5.770	0.222 (0.065 - 0.758)	
	Tohoku	17	17		reference.	
	Kanto	36	61	1.736	0.590 (0.269 - 1.293)	
	Chubu	35	38	0.039	0.921 (0.408 - 2.079)	
	Kinki	27	29	0.027	0.931 (0.397 - 2.184)	
	Chugoku	21	19	0.046	1.105 (0.443 - 2.759)	
	Shikoku	6	9	0.418	0.667 (0.195 - 2.279)	
	Kyushyu	31	32	0.006	0.969 (0.421 - 2.231)	
	Ok.inawa	5	1	2.290	5.000 (0.622 - 40.213)	0.064*
Scale	Big city	21	39	14.743*	reference.	
	city	84	117	0.886	1.333 (0.733 - 2.427)	
	other	77	68	5.574	2.103 (1.135 - 3.898)	0.029*
Nursing Home beds/100,000	<25%	40	69	7.108*	reference.	
	25-49%	56	70	1.452	1.380 (0.817 - 2.330)	
	50-74%	36	47	0.878	1.321 (0.738 - 2.366)	
	75%<	50	38	7.944	2.270 (1.284 - 4.013)	0.0434*
Care health facilities for the Elderly	<25%	68	94	8.107*	reference.	
	25-49%	32	48	0.086	0.922 (1.590 - 0.534)	
	50-74%	47	54	0.526	1.203 (0.730 - 1.984)	
	75%<	35	28	3.370	1.728 (0.964 - 3.098)	0.227*
Designated Hospital Long Term Care Units to Medical Beds	<25%	36	58	4.337*	reference.	
	25-49%	50	59	1.185	1.365 (0.779 - 2.392)	
	50-74%	64	44	8.834	2.343 (1.336 - 4.109)	
	75%<	32	63	0.437	0.818 (1.483 - 0.452)	0.001*
Long term Care Facility Beds/100,000people	<25%	56	91	15.533*	reference.	
	25-49%	42	42	3.102	1.625 (0.947 - 2.789)	
	50-74%	48	59	1.172	1.322 (0.797 - 2.192)	
	75%<	36	32	4.186	1.828 (1.026 - 3.258)	0.144*
Nursing home and Care health facilities for the Elderly	<25%	67	95	5.413*	reference.	
	25-49%	31	55	0.663	0.799 (1.371 - 0.466)	
	50-74%	47	42	3.038	1.587 (0.944 - 2.667)	
	75%<	37	32	2.941	1.639 (0.932 - 2.885)	0.048*

表1-2(continue.). NH residents death (2001)

District Characteristics	death in NH (%)		death in Hospitals		Z 2	OR (95%CI)		P
	n	(%)	n	(%)		reference.	()	
Hospitalbeds/100,000 people	25-49%	50 (27.5)	84 (37.5)		6.426	reference.	(1.169 - 3.396)	0.0302*
	50-74%	51 (28.0)	43 (19.2)		1.993	(1.890 - 3.402)		
	75%<	36 (19.8)	32 (14.3)		4.506	(1.163 - 1.950)		
Clinicbeds/100,000 people	25-49%	63 (34.6)	92 (41.1)		8.930*	reference.	(1.207 - 3.585)	0.020*
	50-74%	47 (25.8)	23 (14.7)		6.947	(0.876 - 1.478 - 2.346)		
	75%<	36 (19.8)	30 (17.4)		1.115	(1.348 - 0.774 - 2.087)		
Hospital and Clinicbeds/100,000 people	25-49%	49 (26.9)	84 (37.5)		8.036	reference.	(1.265 - 3.629)	0.030*
	50-74%	55 (30.2)	44 (19.6)		2.901	(1.665 - 0.926 - 2.995)		
	75%<	34 (18.7)	35 (15.6)		0.632	(1.237 - 0.733 - 2.087)		
Emergency Hospital Beds/100,000people	25-49%	76 (41.8)	99 (44.2)		8.951*	reference.	(0.699 - 2.068)	0.673*
	50-74%	36 (19.8)	39 (17.4)		0.444	(1.262 - 0.733 - 2.190)		
	75%<	34 (18.7)	49 (21.9)		0.140	(0.904 - 0.532 - 1.535)		
Number of physician/100,000 people	25-49%	42 (23.1)	61 (27.2)		4.596	reference.	(1.056 - 3.362)	0.087*
	50-74%	48 (26.4)	37 (16.5)		0.013	(0.968 - 0.553 - 1.696)		
	75%<	52 (28.6)	66 (29.5)		6.312*	(1.144 - 0.670 - 1.954)		

表1-2 (continue.). NH residents death (2001)

Facility characteristics	death in NH n (%)	death in Hospitals n (%)	χ^2	OR (95%CI)	p
Nursing Home Beds/100,000 elderly people	<25% 39 (21.4)	62 (27.7)	Reference.	Reference.	
	25-49% 56 (30.8)	71 (31.7)	0.695	1.254 (0.737 - 2.134)	
	50-74% 42 (23.1)	44 (19.6)	1.977	1.517 (0.849 - 2.714)	
75%<	45 (24.7)	47 (21.0)	2.078	1.522 (0.860 - 2.695)	0.426*
Care Health Facilities for the Elderly	<25% 68 (37.4)	77 (34.4)	Reference.	Reference.	
	25-49% 34 (18.7)	70 (31.3)	5.053	0.550 (0.327 - 0.926)	
	50-74% 48 (26.4)	44 (19.6)	0.627	1.235 (0.732 - 2.084)	
75%<	32 (17.6)	33 (14.7)	0.098	1.098 (0.611 - 1.972)	0.030*
Hospital Long Term Care Units to Care Medical Beds /100,000 elderly people	<25% 35 (19.2)	48 (21.4)	Reference.	Reference.	
	25-49% 56 (30.8)	67 (29.9)	0.227	1.145 (0.654 - 2.010)	
	50-74% 58 (31.9)	53 (23.7)	1.955	1.501 (0.847 - 2.659)	
75%<	33 (18.1)	56 (25.0)	0.465	0.808 (0.438 - 1.490)	0.180*
Long term Care Facility Beds/100,000 elderly people	<25% 56 (30.8)	86 (38.4)	Reference.	Reference.	
	25-49% 40 (22.0)	40 (17.9)	2.326	1.536 (0.885 - 2.665)	
	50-74% 53 (29.1)	45 (20.1)	5.017	1.809 (1.077 - 3.038)	
75%<	33 (18.1)	53 (23.7)	0.026	0.956 (0.552 - 1.657)	0.061*
Nursing Home and Care Health Facilities for the Elderly	<25% 56 (30.8)	88 (39.3)	Reference.	Reference.	
	25-49% 40 (22.0)	44 (19.6)	1.659	1.425 (0.830 - 2.458)	
	50-74% 47 (26.8)	55 (24.6)	1.268	1.343 (0.804 - 2.243)	
75%<	39 (21.4)	37 (16.5)	3.131	1.656 (0.947 - 2.897)	0.299*
HospitalBeds/100,0 00 people	<25% 49 (26.9)	43 (19.2)	Reference.	Reference.	
	25-49% 51 (28.0)	72 (32.1)	2.944	0.622 (1.070 - 0.361)	
	50-74% 40 (22.0)	40 (17.9)	0.182	0.878 (0.482 - 1.599)	
75%<	42 (23.1)	69 (30.8)	4.838	0.534 (0.305 - 0.934)	0.093*
ClinicBeds/100,000 elderly people	<25% 69 (37.9)	81 (36.2)	Reference.	Reference.	
	25-49% 40 (22.0)	43 (19.2)	0.103	1.092 (0.638 - 1.868)	
	50-74% 35 (19.2)	55 (24.6)	1.158	0.747 (0.439 - 1.271)	
75%<	38 (20.9)	45 (20.1)	0.001	0.991 (0.579 - 1.698)	0.620*

表1-2(Continue.) - NIJ residents death (2001)

Facility Characteristics	death in NIJ n (%)	death in hospitals n (%)	χ^2	OR (95%CI)	p
Hospital and Clinics					
<25% Beds/100,000 elderly people	57 (31.3)	62 (27.7)	0.004	reference	
25-49%	47 (26.8)	52 (23.2)	1.312	0.983 (0.576 - 1.677)	
50-74%	33 (18.1)	50 (22.3)	0.572	0.718 (0.407 - 1.266)	
75%<	45 (24.7)	60 (26.8)	1.761 [†]	0.816 (0.481 - 1.383)	0.623 [‡]
Emergency Hospital Beds/100,000					
<25%	70 (38.5)	67 (27.7)	1.097	reference	
25-49%	55 (30.2)	63 (28.1)	2.883	0.773 (0.470 - 1.271)	
50-74%	27 (14.8)	40 (17.9)	3.011	0.598 (0.330 - 1.083)	
75%<	30 (16.5)	59 (26.3)	8.748 [†]	0.450 (0.259 - 0.782)	0.033 [‡]
Number of physician/100,000 people					
<25%	43 (23.6)	41 (18.3)	0.007	reference	
25-49%	46 (25.3)	45 (20.1)	2.132	0.975 (0.539 - 1.764)	
50-74%	37 (20.3)	55 (24.6)	2.521	0.641 (0.353 - 1.164)	
75%<	56 (30.8)	83 (37.1)	4.529 [†]	0.643 (0.373 - 1.109)	0.210 [‡]

[†]: Fisher exact test, [‡]: Wilcoxon test, [§]: 2x4表chi-square test

表1-3. NH residents death multivariate analysis resident level(2001)

number of sample	model A		model B		model C		model D		model E		
	384	(NH 175 (95% C. I.)	H 209 (95% C. I.)	384	(NH175 (95% C. I.)	H209 (95% C. I.)	384	(NH 175 (95% C. I.)	H 209 (95% C. I.)	384	(NH 175 (95% C. I.)
	AOR		AOR	AOR		AOR	AOR		AOR	AOR	
age (continuous variable)	1.036	(1.009 - 1.068)	1.032	(1.003 - 1.063)	1.032	(1.002 - 1.062)	1.032	(1.003 - 1.063)	1.032	(1.002 - 1.063)	
Cognitive dysfunction level M	2.203	(1.205 - 4.027)	1.996	(1.075 - 3.704)	2.012	(1.082 - 3.742)	2.058	(1.102 - 3.842)	2.077	(1.110 - 3.888)	
ADL level C	1.632	(0.874 - 3.048)	1.669	(0.887 - 3.142)	1.677	(0.891 - 3.157)	1.580	(0.834 - 2.991)	1.580	(0.833 - 2.993)	
Bat total-dependent	0.942	(0.499 - 1.780)	0.937	(0.492 - 1.784)	0.892	(0.468 - 1.697)	0.933	(0.488 - 1.781)	0.897	(0.470 - 1.713)	
Cognition of call of nature impossible	1.009	(0.679 - 1.499)	1.009	(0.675 - 1.508)	1.030	(0.688 - 1.542)	1.020	(0.681 - 1.529)	1.038	(0.692 - 1.556)	
malignancy	0.569	(0.269 - 1.204)	0.558	(0.261 - 1.194)	0.559	(0.263 - 1.190)	0.606	(0.283 - 1.298)	0.608	(0.285 - 1.299)	
Respiratory Disease	0.466	(0.240 - 0.907)	0.474	(0.239 - 0.939)	0.472	(0.238 - 0.936)	0.445	(0.223 - 0.886)	0.442	(0.222 - 0.880)	
Ischemic Heart Disease	0.733	(0.307 - 1.751)	0.699	(0.286 - 1.704)	0.735	(0.303 - 1.783)	0.778	(0.313 - 1.934)	0.808	(0.327 - 2.000)	
Stroke	0.856	(0.541 - 1.353)	0.772	(0.483 - 1.235)	0.807	(0.506 - 1.289)	0.760	(0.473 - 1.219)	0.786	(0.491 - 1.261)	
Genitourinary Disease	0.209	(0.053 - 0.818)	0.193	(0.048 - 0.786)	0.203	(0.049 - 0.836)	0.190	(0.047 - 0.765)	0.195	(0.048 - 0.793)	
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere	3.486	(1.071 - 11.345)	2.535	(0.761 - 8.445)	2.645	(0.792 - 8.836)	2.453	(0.733 - 8.203)	2.550	(0.755 - 8.477)	
Year of Fundation											
mean care level upper quadrant			0.982	(0.959 - 1.006)	0.988	(0.965 - 1.012)	0.986	(0.963 - 1.011)	0.991	(0.967 - 1.014)	
full-time physician			1.739	(1.066 - 2.838)	1.690	(1.039 - 2.751)	1.791	(1.093 - 2.934)	1.753	(1.072 - 2.867)	
number of nurse more than x1.5 of the rule			1.483	(0.734 - 2.995)	1.481	(0.729 - 3.009)	1.606	(0.788 - 3.272)	1.613	(0.788 - 3.299)	
number of nurse or careworker more than x1.5 of the rule			0.676	(0.411 - 1.114)	0.535	(0.178 - 1.611)	0.744	(0.447 - 1.237)	0.613	(0.200 - 1.880)	
not city							1.716	(1.076 - 2.736)	1.754	(1.104 - 2.787)	

NH:death in nursing home, H:death in hospital, 95% C. I.=95%Confidence Interval

表1-3(Continue) . NH residents death multivariate analysis Distilict level (2001)

number of sample	model F		model G	
	AOR	(NH 175 (95% C. I.))	AOR	(NH 175 (95% C. I.))
age (continuous variable)	1.033	(1.033 - 1.064)	1.033	(1.002 - 1.064)
Cognitive dysfunction level M	2.102	(2.102 - 3.963)	2.121	(1.122 - 4.012)
ADL level C	1.608	(1.608 - 3.056)	1.612	(0.848 - 3.064)
Eat total-dependent	0.910	(0.910 - 1.750)	0.877	(0.457 - 1.683)
Cognition of call of nature impossible	1.024	(1.024 - 1.543)	1.041	(0.691 - 1.569)
malignancy	0.632	(0.632 - 1.361)	0.633	(0.295 - 1.357)
Respiratory Disease	0.424	(0.424 - 0.853)	0.424	(0.210 - 0.853)
Ischemic Heart Disease	0.886	(0.886 - 2.234)	0.921	(0.368 - 2.307)
Stroke	0.780	(0.780 - 1.263)	0.810	(0.501 - 1.310)
Genitourinary Disease	0.201	(0.201 - 0.847)	0.209	(0.049 - 0.894)
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere	2.305	(2.305 - 7.752)	2.379	(0.706 - 8.017)
Year of Fundation	0.980	(0.956 - 1.005)	0.984	(0.960 - 1.008)
mean care level upper quadrant	1.692	(1.026 - 2.791)	1.655	(1.005 - 2.726)
full-time physician	1.932	(0.919 - 4.062)	1.938	(0.918 - 4.090)
number of nurse more than x1.5 of the rule	0.763	(0.454 - 1.281)		
number of nurse or careworker more than x1.5 of the rule			0.597	(0.193 - 1.842)
not city hokkaidou	1.959	(1.209 - 3.175)	1.997	(1.238 - 3.221)
NH:death in nursing home, H:death in hospital, 95%CI=95%Confidence interval, cf:conifer	0.180	(0.053 - 0.611)	0.176	(0.052 - 0.597)

表1-3-1. NH residents death multivariate analysis resident level (2001)

number of sample	model 1		model 2		model 3	
	397 (NH 180 (95% C.I.))	H 217 (95% C.I.)	394 (NH 178 (95% C.I.))	H 216 (95% C.I.)	384 (NH 175 (95% C.I.))	H 209 (95% C.I.)
	AOR		AOR		AOR	
age (continuous variable)	1.035 (	1.008 - 1.063)	1.034 (	1.007 - 1.062)	1.036 (	1.009 - 1.068)
Cognitive dysfunction level M	2.414 (	1.348 - 4.326)	2.387 (	1.326 - 4.297)	2.203 (	1.205 - 4.027)
ADL level C	1.579 (	1.014 - 2.459)	1.406 (	0.770 - 2.569)	1.632 (	0.874 - 3.048)
Eat total-dependent nature impossible	1.021 (	0.559 - 1.864)	1.021 (	0.559 - 1.864)	0.942 (	0.499 - 1.780)
Cognition of call of malignancy	1.147 (	0.786 - 1.675)	1.147 (	0.786 - 1.675)	1.009 (	0.679 - 1.499)
Respiratory Disease					0.569 (	0.269 - 1.204)
Ischmic Heart Disease					0.466 (	0.240 - 0.907)
Stroke					0.733 (	0.307 - 1.751)
Genitourinary Disease					0.856 (	0.541 - 1.353)
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere					0.209 (	0.053 - 0.818)
					3.486 (	1.071 - 11.345)
Model Fitness						
-2 logL (intercept)	546.905		542.529		529.323	
-2 logL (intercept covariate)	522.462		517.846		488.995	
Wald test	22.512		22.703		33.922	
Pr>Chisq	<0.001		0.0004		0.0004	

NH:death in nursing home, H:death in hospital, 95% C.I.=95% Confidence Interval

表1-3-2. NH residents death multivariate analysis model and facility level (2001)

number of sample	model 4		model 5		model 6	
	(NH 180 95%C.I.)	H 217 (95%C.I.)	(NH 180 95%C.I.)	H 217 (95%C.I.)	(NH 180 95%C.I.)	H 217 (95%C.I.)
AGE	1.031	(1.003 - 1.059)	1.031	(1.003 - 1.059)	1.031	(1.003 - 1.059)
Cognitive dysfunction	2.196	(1.208 - 3.990)	2.188	(1.198 - 3.997)	2.186	(1.195 - 3.997)
ADL level C	1.551	(0.989 - 2.432)	1.565	(0.996 - 2.459)	1.558	(0.992 - 2.445)
Year of Foundation	0.986	(0.964 - 1.008)	0.981	(0.959 - 1.004)	0.987	(0.965 - 1.009)
mean care level upper	2.085	(1.319 - 3.296)	2.111	(1.332 - 3.346)	2.066	(1.305 - 3.271)
quadrant						
full-time physician			1.169	(0.603 - 2.268)	1.149	(0.590 - 2.239)
number of nurse more			0.646	(0.389 - 1.048)		
than x1.5 of the rule						
number of nurse or					0.514	(0.175 - 1.511)
careworker more than						
x1.5 of the rule (x10)						
Model Fitness						
-2 logL (intercept)	546.905		546.905		546.905	
-2 logL (intercept	509.962		506.598		508.224	
covariate)						
Wald test	32.452		34.999		33.670	
Chi square	<0.001		<.0001		<0.0001	
Pr>ChiSq						

NH:death in nursing home, H:death in hospital, 95%C.I.=95%Confidence Interval, cf.:confer

表1-3-3. NH residents death multivariate analysis model 2 + facility level (2001)

number of sample	model 7		model 8		model 9	
	AOR	(NH178 (95%CI))	AOR	(NH178 (95%CI))	AOR	(NH178 (95%CI))
age continuous	1.030	(1.003 - 1.059)	1.030	(1.002 - 1.059)	1.030	(1.002 - 1.059)
cognitive dysfunction	2.197	(1.205 - 4.005)	2.176	(1.188 - 3.985)	2.183	(1.191 - 4.004)
level of ADL	1.459	(0.791 - 2.691)	1.444	(0.782 - 2.665)	1.452	(0.788 - 2.677)
Pat total-dependent	0.960	(0.521 - 1.769)	0.980	(0.531 - 1.808)	0.942	(0.510 - 1.737)
variation of belt of	1.121	(0.763 - 1.647)	1.128	(0.766 - 1.661)	1.153	(0.783 - 1.699)
variation of belt of						
Year of Foundation	0.987	(0.965 - 1.009)	0.983	(0.960 - 1.006)	0.989	(0.967 - 1.011)
mean care level upper	2.048	(1.293 - 3.244)	2.071	(1.304 - 3.290)	2.027	(1.277 - 3.216)
quadrant						
full-time physician			1.192	(0.614 - 2.311)	1.175	(0.603 - 2.289)
number of nurse/more			0.656	(0.404 - 1.064)		
than x1.5 of the rule					0.497	(0.169 - 1.464)
number of nurse or						
careworker/more than						
x1.5 of the rule (x10)						
Model Fit/ness						
-2 logL (intercept)	542.529		542.529		542.529	
-2 logL (intercept	506.451		503.260		504.496	
covariate)						
Wald test	31.807		34.207		33.200	
Pr>Chisq	<.0001		<.0001		<0.001	

NH:death in nursing home, H:death in hospital, 95%CI.=95%Confidence Interval,cf.:confer

表1-3-4. NH residents death multivariate analysis model 3 + facility level (2001)

number of sample	model 10		model 11		model 12	
	AOR	(NH175 (95%CI.))	AOR	(NH175 (95%CI.))	AOR	(NH175 (95%CI.))
age continuous	1.032	(1.003 - 1.063)	1.032	(1.003 - 1.063)	1.032	(1.002 - 1.062)
ADL level C	2.066	(1.119 - 3.813)	1.996	(1.075 - 3.704)	2.012	(1.082 - 3.742)
ADL level D	1.684	(0.895 - 3.170)	1.669	(0.887 - 3.142)	1.677	(0.891 - 3.157)
Ear total-dependent	0.914	(0.481 - 1.737)	0.937	(0.492 - 1.784)	0.892	(0.468 - 1.697)
Ear total-independent	0.998	(0.669 - 1.488)	1.009	(0.675 - 1.508)	1.030	(0.688 - 1.542)
malignancy	0.573	(0.270 - 1.217)	0.558	(0.261 - 1.194)	0.559	(0.263 - 1.190)
Respiratory Disease	0.474	(0.240 - 0.933)	0.474	(0.239 - 0.939)	0.472	(0.238 - 0.936)
Ischemic Heart Disease	0.718	(0.297 - 1.734)	0.699	(0.286 - 1.704)	0.735	(0.303 - 1.783)
Stroke	0.804	(0.505 - 1.281)	0.772	(0.483 - 1.255)	0.807	(0.506 - 1.289)
Genitourinary Disease	0.220	(0.055 - 0.878)	0.193	(0.048 - 0.786)	0.203	(0.049 - 0.836)
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	2.724	(0.819 - 9.060)	2.535	(0.761 - 8.445)	2.645	(0.792 - 8.836)
Year of Foundation	0.985	(0.963 - 1.009)	0.982	(0.959 - 1.006)	0.988	(0.965 - 1.012)
mean care level upper quadrant	1.697	(1.044 - 2.757)	1.739	(1.066 - 2.838)	1.690	(1.039 - 2.751)
full-time physician			1.483	(0.734 - 2.995)	1.481	(0.729 - 3.009)
number of nurse more than x1.5 of the rule			0.676	(0.411 - 1.114)		
number of nurse or careworker more than x1.5 of the rule (x10)					0.535	(0.178 - 1.611)
Model Fitness						
-2 logL (intercept)	529.323		529.323		529.323	
-2 logL (intercept covariate)	482.283		479.800		479.800	
Wald test	38.986		41.557		40.584	
Pr>Chisq	<0.001		<0.001		<0.001	

NH:death in nursing home, H:death in hospital, 95%CI.=95%Confidence Interval, cf:confir

表1-3-5. NH residents death multivariate analysis model 6, 9, 8 nurse worker each variable model (2001)

	model 13 AOR	(NH 180 (95%CI.)	H 217)	model 14 AOR	(NH 178 (95%CI.)	H 216)	model 15 AOR	(NH 175 (95%CI.)	H 209)
number of sample	397			394			384		
age continuous	1.030	(1.002 - 1.058)		1.029	(1.001 - 1.057)		1.030	(1.001 - 1.061)	
respiratory dysfunction	2.236	(1.224 - 4.087)		2.240	(1.221 - 4.107)		2.062	(1.111 - 3.826)	
ADL level C	1.590	(1.010 - 2.505)		1.516	(0.818 - 2.811)		1.729	(0.916 - 3.265)	
Ear total-dependent				0.938	(0.507 - 1.737)		0.898	(0.471 - 1.712)	
respiratory dysfunction				1.121	(0.760 - 1.651)		1.007	(0.674 - 1.506)	
malignancy							0.570	(0.266 - 1.221)	
Respiratory Disease							0.492	(0.246 - 0.984)	
Ischemic Heart Disease							0.692	(0.284 - 1.687)	
Stroke							0.786	(0.491 - 1.259)	
Genitourinary Disease							0.209	(0.051 - 0.867)	
symptoms, signs and							2.845	(0.856 - 9.454)	
abnormal clinical and									
laboratory findings,									
not elsewhere									
classified									
Year of Foundation	0.988	(0.965 - 1.011)		0.989	(0.966 - 1.013)		0.988	(0.964 - 1.012)	
mean care level upper	2.119	(1.328 - 3.382)		2.085	(1.303 - 3.335)		1.728	(1.052 - 2.838)	
quadrant									
full-time physician	1.077	(0.551 - 2.106)		1.102	(0.584 - 2.154)		1.377	(0.677 - 2.801)	
number of nurse upper	1.032	(1.002 - 1.063)		1.031	(1.001 - 1.062)		1.028	(0.996 - 1.060)	
quadrant (quarter)									
number of careworker	0.968	(0.927 - 1.010)		0.968	(0.927 - 1.011)		0.969	(0.925 - 1.014)	
upper quadrant (x10)									
(quarter)									
Model Fitness	546.905			542.529			529.323		
-2 logL (intercept)	503.396			500.042			476.436		
covariate)									
Wald test	37.643			36.855			43.169		
Pr>Chisq	<.0001			<.0001			<.0001		

NH:death in nursing home, H:death in hospital, 95%CI.=95%Confidence Interval

表I-3-6. NH residents death multivariate analysis District model (2001)

number of sample	model 16		model 17		model 18				
	397	(NH 180 (95% C. I.)	H 217)	394	(NH 178 (95% C. I.)	H 216)	384	(NH 175 (95% C. I.)	H 209)
	AOR			AOR			AOR		
age (continuous variable)	1.030	(1.002 - 1.059)	1.029	(1.001 - 1.059)	1.030	(1.000 - 1.061)			
Cognitive dysfunction level M	2.313	(1.260 - 4.246)	2.322	(1.260 - 4.277)	2.141	(1.146 - 3.999)			
ADL level C	1.516	(0.958 - 2.400)	1.420	(0.760 - 2.653)	1.620	(0.852 - 3.082)			
Eat total-dependent			0.942	(0.507 - 1.752)	0.904	(0.472 - 1.732)			
Cognition of call of nature impossible			1.127	(0.763 - 1.665)	1.017	(0.678 - 1.525)			
malignancy					0.624	(0.291 - 1.342)			
Respiratory Disease					0.457	(0.227 - 0.919)			
Ischemic Heart Disease					0.770	(0.307 - 1.928)			
Stroke					0.766	(0.475 - 1.234)			
Genitourinary Disease					0.207	(0.051 - 0.841)			
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere					2.757	(0.825 - 9.208)			
Year of Foundation	0.990	(0.966 - 1.013)	0.991	(0.968 - 1.015)	0.989	(0.965 - 1.014)			
mean care level upper quadrant	2.151	(1.341 - 3.450)	2.126	(1.322 - 3.419)	1.761	(1.066 - 2.910)			
full-time physician	1.186	(0.602 - 2.335)	1.215	(0.616 - 2.394)	1.531	(0.745 - 3.143)			
number of nurse more than x1.5 of the rule	1.031	(1.001 - 1.063)	1.031	(1.000 - 1.062)	1.026	(0.995 - 1.059)			
number of careworker more than x1.5 of the rule (x10)	0.954	(0.911 - 0.998)	0.953	(0.911 - 0.998)	0.953	(0.907 - 1.000)			
not City	1.878	(1.187 - 2.971)	1.919	(1.209 - 3.046)	1.998	(1.235 - 3.232)			
Model Fitness									
-2 logL (intercept)	546.905		542.529		529.323				
-2 logL (intercept covariate)	496.051		492.292		468.345				
Wald test	43.053		42.571		48.887				
Pr>Chisq	<.0001		<.0001		<.0001				

NH:death in nursing home, H:death in hospital, 95% C. I.=95% Confidence Interval

表1-8-7. NH residents death multivariate analysis Distict Level (2001)

	model 19 AOR	NH 180 (95% C. I.)	H 217	model 20 AOR	NH 178 (95% C. I.)	H 216	model 21 AOR	NH 175 (95% C. I.)	H 209
age continuous	1.030	(1.001 - 1.059)		1.029	(1.000 - 1.058)		1.030	(0.999 - 1.061)	
cognitive dysfunction	2.307	(1.256 - 4.256)		2.322	(1.260 - 4.278)		2.145	(1.148 - 4.008)	
ADL level C	1.534	(0.968 - 2.431)		1.453	(0.775 - 2.724)		1.670	(0.874 - 3.190)	
Eat total-dependent				0.923	(0.495 - 1.720)		0.874	(0.454 - 1.682)	
Cognition of call of nature impossible				1.130	(0.765 - 1.669)		1.022	(0.681 - 1.534)	
malignancy							0.636	(0.296 - 1.368)	
Respiratory Disease							0.451	(0.224 - 0.908)	
Ischemic Heart Disease							0.781	(0.313 - 1.949)	
Stroke							0.764	(0.474 - 1.233)	
Genitourinary Disease							0.208	(0.051 - 0.842)	
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere							2.875	(0.856 - 9.662)	
Year of Foundation	0.989	(0.966 - 1.013)		0.991	(0.968 - 1.015)		0.989	(0.964 - 1.014)	
mean care level upper quadrant	2.041	(1.248 - 3.339)		2.011	(1.226 - 3.297)		1.634	(0.966 - 2.764)	
full-time physician	1.203	(0.610 - 2.373)		1.234	(0.625 - 2.437)		1.562	(0.758 - 3.217)	
number of nurse upper quadrant (quarter)	1.032	(1.001 - 1.063)		1.031	(1.000 - 1.063)		1.027	(0.995 - 1.060)	
number of careworker upper quadrant (quarter)	0.955	(0.912 - 1.000)		0.955	(0.912 - 0.999)		0.954	(0.909 - 1.002)	
not City	1.797	(1.119 - 2.885)		1.832	(1.139 - 2.949)		1.894	(1.155 - 3.104)	
number of nursing home beds upper quadrant (quarter)	1.234	(0.709 - 2.145)		1.257	(0.719 - 2.196)		1.326	(0.746 - 2.355)	
-2 logL (intercept)	546.905			542.529			529.323		
-2 logL (intercept covariate)	495.499			491.649			467.424		
Wald test	43.192			42.734			49.255		
Pr>Chisq	<.0001			<.0001			<.0001		

NH:death in nursing home, H:death in hospital, 95% C. I.=95%Confidence Interval