

Supplementary Information

Questionnaire survey on pharmacists' roles among non- and health care professionals in medium-sized cities in Japan

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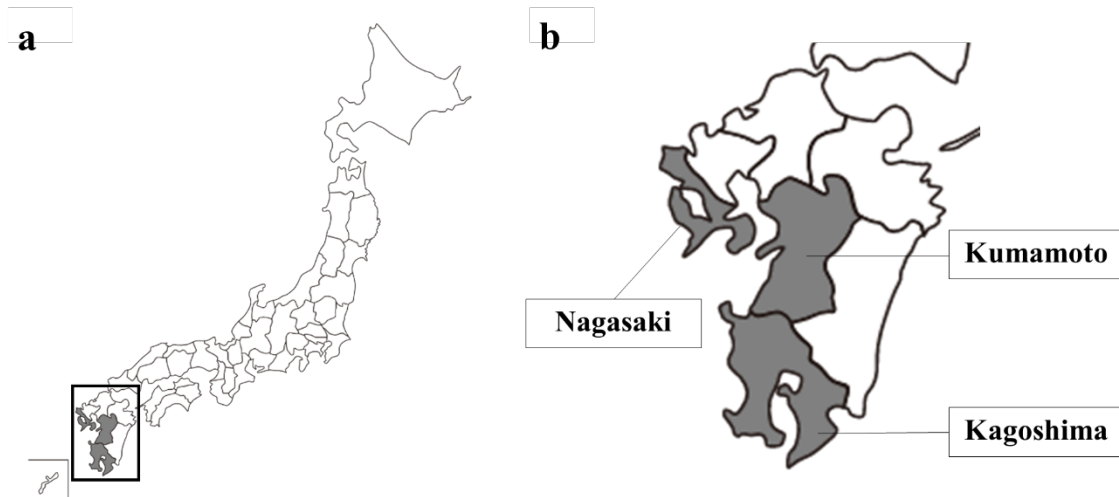
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Supplementary Figure S1. Map of Japan and Kyushu region.



(a) Map of Japan. The area in the square is the Kyushu region. The gray solid areas show Kumamoto, Kagoshima, and Nagasaki prefectures.

(b) Map of the Kyushu region (in the square in Figure S1a). The gray solid areas show Kumamoto, Kagoshima, and Nagasaki prefectures. Non-health care professionals were surveyed throughout the Kyushu region. Health care professionals were surveyed in Kumamoto, Kagoshima, Nagasaki prefectures. We used a web-based map tool (<https://www.freemap.jp/free.html>) to create the figures.

Supplementary Table S1. Survey responses for Category 1.

Category 1: Do you think that pharmacists should collect patients' information regarding the following items?

(Scores: 1 = completely disagree, 2 = somewhat disagree, 3= unsure, 4 = somewhat agree, 5 = completely agree)

	Pharmacists	Non-health care professionals	Nurses	Medical doctors		<i>p</i> -value	
	n = 204	n = 487	n = 151	n = 133	Pharmacists vs. Non-health care professionals	Pharmacists vs. Nurses	Pharmacists vs. Medical doctors
Obtaining basic patient information							
1. Family structure	2 (1.0)	56 (11.5)	2 (1.3)	2 (1.5)	NA	< 0.001	0.16
	5 (2.5)	81 (16.6)	10 (6.7)	10 (7.6)			
	16 (7.9)	134 (27.5)	30 (20.0)	9 (6.8)			
	136 (67.0)	162 (33.3)	62 (41.3)	72 (54.5)			
	44 (21.7)	54 (11.1)	46 (30.7)	39 (29.5)			
2. Eating habits	1 (0.5)	13 (2.7)	0 (0.0)	3 (2.3)	< 0.001	0.007	0.07
	2 (1.0)	27 (5.5)	7 (4.7)	6 (4.5)			
	5 (2.5)	74 (15.2)	15 (10.0)	9 (6.8)			
	111 (54.7)	232 (47.6)	77 (51.3)	67 (50.8)			
	84 (41.4)	141 (29.0)	51 (34.0)	47 (35.6)			
3. Attending medical institutions	0 (0.0)	12 (2.5)	1 (0.7)	0 (0.0)	< 0.001	< 0.001	0.005
	1 (0.5)	11 (2.3)	1 (0.7)	3 (2.3)			
	5 (2.5)	45 (9.2)	8 (5.3)	2 (1.5)			
	26 (12.7)	200 (41.1)	51 (34.0)	36 (27.3)			

	172 (84.3)	219 (45.0)	89 (59.3)	91 (68.9)			
4. Household income	7 (3.4)	124 (25.5)	9 (6.0)	8 (6.1)	NA	1.00	0.30
	24 (11.8)	133 (27.3)	18 (12.0)	12 (9.1)			
	98 (48.0)	160 (32.9)	63 (42.0)	48 (36.4)			
	67 (32.8)	58 (11.9)	48 (32.0)	54 (40.9)			
	8 (3.9)	12 (2.5)	12 (8.0)	10 (7.6)			
5. Job description	3 (1.5)	56 (11.5)	2 (1.3)	2 (1.5)	NA	0.005	0.19
	5 (2.5)	86 (17.7)	11 (7.3)	12 (9.1)			
	28 (13.8)	130 (26.7)	31 (20.7)	21 (15.9)			
	137 (67.5)	184 (37.8)	71 (47.3)	75 (56.8)			
	30 (14.8)	31 (6.4)	35 (23.3)	22 (16.7)			
Patient's disease status and medication administration							
1. Present illness	0 (0.0)	3 (0.6)	0 (0.0)	0 (0.0)	< 0.001	0.70	0.54
	0 (0.0)	4 (0.8)	2 (1.3)	0 (0.0)			
	0 (0.0)	36 (7.4)	1 (0.7)	0 (0.0)			
	15 (7.4)	160 (32.9)	12 (7.9)	16 (12.0)			
	187 (92.6)	284 (58.3)	136 (90.1)	117 (88.0)			
2. Past medical history	0 (0.0)	5 (1.0)	0 (0.0)	0 (0.0)	< 0.001	0.83	0.77
	0 (0.0)	8 (1.6)	2 (1.3)	1 (0.8)			
	2 (1.0)	39 (8.0)	3 (2.0)	2 (1.5)			
	34 (16.7)	208 (42.7)	20 (13.2)	30 (22.6)			
	167 (82.3)	227 (46.6)	126 (83.4)	100 (75.2)			

3. Medical data such as blood sampling results	0 (0.0)	9 (1.8)	1 (0.7)	0 (0.0)	< 0.001	0.002	< 0.001
	0 (0.0)	9 (1.8)	1 (0.7)	0 (0.0)			
	0 (0.0)	102 (20.9)	9 (6.0)	8 (6.0)			
	46 (22.7)	196 (40.2)	32 (21.2)	54 (40.6)			
	157 (77.3)	171 (35.1)	108 (71.5)	71 (53.4)			
4. Medicine taken and medication interactions	0 (0.0)	2 (0.4)	0 (0.0)	0 (0.0)	< 0.001	0.039	0.022
	0 (0.0)	7 (1.4)	0 (0.0)	0 (0.0)			
	0 (0.0)	39 (8.0)	1 (0.7)	0 (0.0)			
	3 (1.5)	128 (26.3)	10 (6.6)	10 (7.5)			
	200 (98.5)	311 (63.9)	140 (92.7)	123 (92.5)			
5. History of medication	0 (0.0)	3 (0.6)	1 (0.7)	0 (0.0)	< 0.001	0.048	0.92
	0 (0.0)	11 (2.3)	2 (1.3)	1 (0.8)			
	5 (2.5)	61 (12.5)	3 (2.0)	6 (4.5)			
	84 (41.4)	169 (34.7)	42 (28.0)	47 (35.3)			
	114 (56.2)	243 (49.9)	102 (68.0)	79 (59.4)			
6. Side effect history	0 (0.0)	3 (0.6)	0 (0.0)	0 (0.0)	< 0.001	0.016	< 0.001
	0 (0.0)	8 (1.6)	0 (0.0)	0 (0.0)			
	0 (0.0)	39 (8.0)	0 (0.0)	0 (0.0)			
	1 (0.5)	118 (24.2)	8 (5.3)	14 (10.5)			
	202 (99.5)	319 (65.5)	142 (94.7)	119 (89.5)			
7. Confirmation of how much medication the patient forgot to take and the amount	0 (0.0)	2 (0.4)	0 (0.0)	0 (0.0)	< 0.001	1.00	0.21
	0 (0.0)	13 (2.7)	0 (0.0)	1 (0.8)			
	1 (0.5)	67 (13.8)	2 (1.3)	5 (3.8)			

of medication	41 (20.2)	209 (42.9)	37 (24.5)	26 (19.5)			
remaining	161 (79.3)	196 (42.9)	112 (74.2)	101 (75.9)			
8. Patient's concerns	0 (0.0)	1 (0.2)	0 (0.0)	0 (0.0)	< 0.001	1.00	1.00
and wishes regarding	0 (0.0)	10 (2.1)	0 (0.0)	0 (0.0)			
medication (cost of	2 (1.0)	65 (13.3)	2 (1.3)	4 (3.0)			
medication, type of	54 (26.7)	196 (40.2)	33 (21.9)	34 (25.6)			
medication, increase	146 (72.3)	215 (44.1)	116 (76.8)	95 (71.4)			
or decrease in dosage)							

Supplementary Table S2. Survey responses for Category 2.

Category 2: Do you think pharmacists should provide information regarding the following items to patients?

(Scores: 1 = completely disagree, 2 = somewhat disagree, 3= unsure, 4 = somewhat agree, 5 = completely agree)

	Pharmacists	Non-health care professionals	Nurses	Medical doctors	<i>p</i> -value		
	n = 204	n = 487	n = 151	n = 133	Pharmacists vs. Non-health care professionals	Pharmacists vs. Nurses	Pharmacists vs. Medical doctors
1. Safety information on medicines	0 (0.0)	3 (0.6)	0 (0.0)	0 (0.0)	0.026	0.93	0.13
	1 (0.5)	20 (4.1)	2 (1.3)	0 (0.0)			
	15 (7.4)	52 (10.7)	9 (6.0)	3 (2.3)			
	73 (36.1)	192 (39.4)	43 (28.5)	40 (30.1)			
	113 (55.9)	220 (45.2)	97 (64.2)	90 (67.7)			
2. Information on generic drugs	0 (0.0)	4 (0.8)	0 (0.0)	0 (0.0)	0.65	1.00	1.00
	4 (2.0)	9 (1.8)	2 (1.3)	4 (3.0)			
	30 (14.9)	67 (13.8)	23 (15.2)	14 (10.5)			
	97 (48.0)	197 (40.5)	62 (41.1)	66 (49.6)			
	71 (35.1)	210 (43.1)	64 (42.4)	49 (36.8)			
3. Education on correspondence in the case of forgetting to take medication	1 (0.5)	5 (1.0)	0 (0.0)	0 (0.0)	< 0.001	0.07	0.73
	0 (0.0)	7 (1.4)	1 (0.7)	2 (1.5)			
	1 (0.5)	62 (12.7)	5 (3.3)	2 (1.5)			
	57 (28.2)	207 (42.5)	29 (19.2)	42 (31.6)			
	143 (70.8)	206 (42.3)	116 (76.8)	87 (65.4)			

4. Education on correspondence in the case of drug-induced side effects	0 (0.0)	6 (1.2)	0 (0.0)	0 (0.0)	< 0.001	1.00	1.00
	1 (0.5)	2 (0.4)	0 (0.0)	1 (0.8)			
	4 (2.0)	49 (10.1)	4 (2.6)	1 (0.8)			
	48 (23.8)	158 (32.4)	26 (17.2)	32 (24.1)			
	149 (73.8)	272 (55.9)	121 (80.1)	99 (74.4)			
5. Information on local hospitals, pharmacies, and nursing care facilities	2 (1.0)	8 (1.6)	4 (2.6)	4 (3.0)	0.043	0.003	0.62
	17 (8.4)	25 (5.1)	13 (8.6)	9 (6.8)			
	63 (31.2)	120 (24.6)	31 (20.5)	32 (24.1)			
	88 (43.6)	206 (42.3)	53 (35.1)	57 (42.9)			
	32 (15.8)	128 (26.3)	50 (33.1)	31 (23.3)			

Supplementary Table S3. Survey responses for Category 3.

Category 3: Do you think pharmacists should communicate with medical doctors or nurses in the following ways?

(Scores: 1 = completely disagree, 2 = somewhat disagree, 3= unsure, 4 = somewhat agree, 5 = completely agree)

	Pharmacists	Non-health care professionals	Nurses	Medical doctors	<i>p</i> -value		
	n = 204	n = 487	n = 151	n = 133	Pharmacists vs. Non-health care professionals	Pharmacists vs. Nurses	Pharmacists vs. Medical doctors
1. Collaborate with doctors on drug treatment plans	0 (0.0) 2 (1.0) 29 (14.3) 87 (42.9) 85(41.9)	8 (1.6) 15 (3.1) 106 (21.8) 209 (42.9) 149 (30.6)	1 (0.7) 2 (1.3) 19 (12.6) 63 (41.7) 66 (43.7)	1 (0.8) 4 (3.0) 14 (10.5) 60 (45.1) 54 (40.6)	0.011	1.00	1.00
2. Collaborate with nurses on medication administration and management	1 (0.5) 1 (0.5) 15 (7.5) 97 (48.3) 87 (43.3)	7 (1.4) 27 (5.5) 139 (28.5) 200 (41.1) 114 (23.4)	0 (0.0) 2 (1.3) 8 (5.3) 70 (46.4) 71 (47.0)	0 (0.0) 3 (2.3) 10 (7.5) 64 (48.1) 56 (42.1)	< 0.001	1.00	1.00
3. Share information with the doctor on the patient's medication from all attending hospitals	0 (0.0) 0 (0.0) 4 (2.0) 29 (14.4)	4 (0.8) 7 (1.4) 78 (16.0) 203 (41.7)	0 (0.0) 2 (1.3) 3 (2.0) 34 (22.5)	0 (0.0) 0 (0.0) 3 (2.3) 28 (21.1)	< 0.001	0.19	0.81

	169 (83.7)	195 (40.0)	112 (74.2)	102 (76.7)			
4. Share information with the nurse on the patient's medication from all attending hospitals	1 (0.5)	5 (1.0)	0 (0.0)	0 (0.0)	< 0.001	0.73	1.00
	2 (1.0)	18 (3.7)	2 (1.3)	2 (1.5)			
	21 (10.4)	110 (22.6)	8 (5.3)	10 (7.5)			
	75 (37.1)	201 (41.3)	51 (33.8)	49 (36.8)			
	103 (51.0)	153 (31.4)	90 (59.6)	72 (54.1)			
5. Share information with the doctor on the effects of prescribed medication	6 (3.0)	8 (1.6)	1 (0.7)	2 (1.5)	0.60	0.20	0.87
	12 (5.9)	14 (2.9)	7 (4.6)	6 (4.5)			
	42 (20.7)	98 (20.1)	21 (13.9)	18 (13.5)			
	78 (38.4)	185 (38.0)	54 (35.8)	64 (48.1)			
	65 (32.0)	182 (37.4)	68 (45.0)	43 (32.3)			
6. Share information with the nurse on the effects of prescribed medication	5 (2.5)	8 (1.6)	1 (0.7)	1 (0.8)	1.00	0.003	1.00
	6 (3.0)	21 (4.3)	5 (3.3)	4 (3.0)			
	42 (20.7)	121 (24.8)	14 (9.3)	21 (15.8)			
	93 (45.8)	201 (41.3)	61 (40.4)	66 (49.6)			
	57 (28.1)	136 (27.9)	70 (46.4)	41 (30.8)			
7. Share information with the doctor on side effects of prescribed medication	0 (0.0)	7 (1.4)	0 (0.0)	2 (1.5)	0.006	0.68	0.042
	4 (2.0)	9 (1.8)	6 (4.0)	2 (1.5)			
	17 (8.4)	75 (15.4)	20 (13.2)	11 (8.3)			
	66 (32.5)	189 (38.8)	51 (33.8)	63 (47.4)			
	116 (57.1)	207 (42.5)	74 (49.0)	55 (41.4)			

8. Share information with the nurse on side effects of prescribed medication	2 (1.0)	6 (1.2)	1 (0.7)	1 (0.8)	0.016	1.00	1.00
	3 (1.5)	13 (2.7)	5 (3.3)	2 (1.5)			
	25 (12.3)	104 (21.4)	12 (7.9)	11 (8.3)			
	80 (39.4)	205 (42.1)	54 (35.8)	65 (48.9)			
	93 (45.8)	159 (32.6)	79 (52.3)	54 (40.6)			
9. Share information with the doctor on how the patient takes their medicine	0 (0.0)	4 (0.8)	0 (0.0)	0 (0.0)	< 0.001	0.013	1.00
	0 (0.0)	17 (3.5)	3 (2.0)	1 (0.8)			
	4 (2.0)	75 (15.4)	13 (8.6)	2 (1.5)			
	80 (39.4)	201 (41.3)	55 (36.4)	51 (38.3)			
	119 (58.6)	190 (39.0)	80 (53.0)	79 (59.4)			
10. Share information with the nurse on how the patient takes their medicine	2 (1.0)	7 (1.4)	1 (0.7)	0 (0.0)	< 0.001	1.00	1.00
	2 (1.0)	23 (4.7)	3 (2.0)	2 (1.5)			
	18 (8.9)	117 (24.0)	12 (7.9)	8 (6.0)			
	78 (38.4)	200 (41.1)	53 (35.1)	54 (40.6)			
	103 (50.7)	140 (28.7)	82 (54.3)	69 (51.9)			
11. Share information with the doctor on the patient's medication preferences	0 (0.0)	3 (0.6)	0 (0.0)	0 (0.0)	< 0.001	0.99	1.00
	1 (0.5)	14 (2.9)	1 (0.7)	1 (0.8)			
	2 (1.0)	87 (17.9)	4 (2.6)	3 (2.3)			
	67 (33.2)	194 (39.8)	40 (26.5)	53 (39.8)			
	132 (65.3)	189 (38.8)	106 (70.2)	76 (57.1)			
12. Share information with the nurse on the patient's medication preferences	2 (1.0)	9 (1.8)	1 (0.7)	0 (0.0)	0.002	< 0.001	0.09
	4 (2.0)	18 (3.7)	5 (3.3)	6 (4.5)			
	36 (17.7)	127 (26.1)	6 (4.0)	12 (9.0)			

	70 (34.5)	197 (40.5)	48 (32.0)	61 (45.9)			
	91 (44.8)	136 (27.9)	90 (60.0)	54 (40.6)			
13. Share information with the doctor on the patient's health supplement intake	0 (0.0)	7 (1.4)	1 (0.7)	0 (0.0)	< 0.001	0.47	1.00
	3 (1.5)	40 (8.2)	5 (3.3)	3 (2.3)			
	21 (10.3)	120 (24.6)	25 (16.6)	16 (12.0)			
	81 (39.9)	172 (35.3)	51 (33.8)	59 (44.4)			
	98 (48.3)	148 (30.4)	69 (45.7)	55 (41.4)			
14. Share information with the nurse on the patient's health supplement intake	2 (1.0)	13 (2.7)	1 (0.7)	0 (0.0)	0.17	1.00	0.64
	10 (4.9)	38 (7.8)	6 (4.0)	4 (3.0)			
	47 (23.2)	146 (30.0)	27 (17.9)	22 (16.5)			
	84 (41.4)	178 (36.6)	63 (41.7)	70 (52.6)			
	60 (29.6)	112 (23.0)	54 (35.8)	37 (27.8)			
15. Provide consultation regarding medication and prescription to the doctor	0 (0.0)	2 (0.4)	0 (0.0)	0 (0.0)	< 0.001	0.002	0.022
	0 (0.0)	8 (1.6)	0 (0.0)	0 (0.0)			
	0 (0.0)	78 (16.0)	4 (2.6)	4 (3.0)			
	15 (7.4)	197 (40.5)	26 (17.2)	17 (12.8)			
	188 (92.6)	202 (41.5)	121 (80.1)	112 (84.2)			
16. Provide consultation regarding medication and prescription to the nurse	0 (0.0)	5 (1.0)	0 (0.0)	1 (0.8)	< 0.001	1.00	< 0.001
	0 (0.0)	14 (2.9)	0 (0.0)	0 (0.0)			
	2 (1.0)	108 (22.2)	3 (2.0)	7 (5.3)			
	23 (11.3)	195 (40.0)	23 (15.2)	34 (25.6)			
	178 (87.7)	165 (33.9)	125 (82.8)	91 (68.4)			

17. Provide the latest information on medicines to the doctor	3 (1.5)	4 (0.8)	0 (0.0)	2 (1.5)	0.15	0.62	1.00
	5 (2.5)	15 (3.1)	2 (1.3)	6 (4.5)			
	24 (11.8)	85 (17.5)	21 (13.9)	18 (13.5)			
	69 (34.0)	193 (39.6)	39 (25.8)	54 (40.6)			
	102 (50.2)	190 (39.0)	89 (58.9)	53 (39.8)			
18. Provide the latest information on medicines to the nurse	4 (2.0)	6 (1.2)	2 (1.3)	3 (2.3)	1.00	0.72	1.00
	10 (4.9)	18 (3.7)	11 (7.3)	10 (7.5)			
	55 (27.1)	134 (27.5)	29 (19.2)	32 (24.1)			
	69 (34.0)	185 (38.0)	47 (31.1)	52 (39.1)			
	65 (32.0)	144 (29.6)	62 (41.1)	36 (27.1)			
19. Participate in conferences regarding discharge of hospitalized patients	3 (1.5)	13 (2.7)	1 (0.7)	0 (0.0)	NA	0.09	0.44
	7 (3.5)	36 (7.4)	7 (4.7)	7 (5.3)			
	25 (12.4)	174 (35.7)	31 (20.8)	21 (15.9)			
	97 (48.0)	176 (36.1)	49 (32.9)	72 (54.5)			
	70 (34.7)	88 (18.1)	61 (40.9)	32 (24.2)			
20. Participate in conferences regarding surgery in hospitalized patients	8 (4.0)	14 (2.9)	3 (2.0)	1 (0.8)	1.00	0.06	1.00
	14 (6.9)	31 (6.4)	6 (4.0)	9 (6.8)			
	75 (37.1)	178 (36.6)	44 (29.5)	47 (35.6)			
	75 (37.1)	178 (36.6)	53 (35.6)	55 (41.7)			
	30 (14.9)	86 (17.7)	43 (28.9)	20 (15.2)			
21. Hold education sessions for doctors on drug characteristics	4 (2.0)	4 (0.8)	1 (0.7)	4 (3.0)	< 0.001	< 0.001	0.16
	16 (7.9)	15 (3.1)	1 (0.7)	6 (4.5)			
	73 (36.1)	144 (29.6)	37 (24.8)	36 (27.1)			

	78 (38.6)	181 (37.2)	60 (40.3)	51 (38.3)			
	31 (15.3)	143 (29.4)	50 (33.6)	36 (27.1)			
22. Hold education sessions for nurses on drug characteristics	2 (1.0)	3 (0.6)	1 (0.7)	2 (1.5)	0.25	< 0.001	1.00
	10 (5.0)	16 (3.3)	1 (0.7)	8 (6.0)			
	50 (24.8)	148 (30.4)	19 (12.8)	28 (21.1)			
	100 (49.5)	196 (40.2)	64 (43.2)	65 (48.9)			
	40 (19.8)	124 (25.5)	63 (42.6)	30 (22.6)			
23. Evaluate and suggest the type and dosage form of medication based on the patient's condition (e.g., capsules, syrup)	1 (0.5)	6 (1.2)	1 (0.7)	0 (0.0)	< 0.001	0.001	0.001
	0 (0.0)	16 (3.3)	0 (0.0)	0 (0.0)			
	1 (0.5)	126 (25.9)	11 (7.4)	5 (3.8)			
	45 (22.3)	211 (43.3)	43 (28.9)	50 (37.6)			
	155 (76.7)	128 (26.3)	94 (63.1)	78 (58.6)			

Supplementary Table S4. Survey responses for Category 4.

Category 4: Do you think pharmacists should be engaged in community health care in the following ways?

(Scores: 1 = completely disagree, 2 = somewhat disagree, 3= unsure, 4 = somewhat agree, 5 = completely agree)

	Pharmacists	Non-health care professionals	Nurses	Medical doctors	<i>p</i> -value		
	n = 204	n = 487	n = 151	n = 133	Pharmacists vs. Non-health care professionals	Pharmacists vs. Nurses	Pharmacists vs. Medical doctors
1. Respond to patient calls at night and on holidays	5 (2.5)	19 (3.9)	5 (3.4)	9 (6.8)	< 0.001	< 0.001	< 0.001
	6 (3.0)	45 (9.2)	21 (14.1)	26 (19.5)			
	50 (24.8)	170 (34.9)	56 (37.6)	50 (37.6)			
	94 (46.5)	179 (36.8)	49 (32.9)	39 (29.3)			
	47 (23.3)	74 (15.2)	18 (12.1)	9 (6.8)			
2. Provide 24-hour dispensing services	8 (4.0)	28 (5.7)	6 (4.0)	15 (11.3)	1.00	1.00	< 0.001
	23 (11.4)	68 (14.0)	15 (10.1)	37 (27.8)			
	87 (43.1)	220 (45.2)	66 (44.3)	52 (39.1)			
	66 (32.7)	123 (25.3)	39 (26.2)	26 (19.5)			
	18 (8.9)	48 (9.9)	23 (15.4)	3 (2.3)			
3. Regularly share information on the patient's status with doctors and nurses who work in nursing homes	0 (0.0)	2 (0.4)	0 (0.0)	3 (2.3)	< 0.001	0.005	< 0.001
	2 (1.0)	27 (5.5)	4 (2.7)	3 (2.3)			
	18 (8.9)	153 (31.4)	29 (19.6)	20 (15.0)			
	105 (52.0)	210 (43.1)	80 (54.1)	86 (64.7)			
	77 (38.1)	95 (19.5)	35 (23.6)	21 (15.8)			

**and home health care
providers**

4. Manage and explain medications to home care patients	1 (0.5)	8 (1.6)	1 (0.7)	4 (3.1)	NA	< 0.001	< 0.001
	1 (0.5)	39 (8.0)	2 (1.4)	9 (6.9)			
	10 (5.0)	177 (36.3)	42 (28.4)	40 (30.5)			
	84 (41.6)	185 (38.0)	63 (42.6)	63 (48.1)			
	106 (52.5)	78 (16.0)	40 (27.0)	15 (11.5)			
5. Perform interviews and visual inspections for home care patients to check their status	2 (1.0)	15 (3.1)	3 (2.0)	5 (3.8)	NA	0.31	< 0.001
	5 (2.5)	44 (9.0)	10 (6.7)	17 (12.8)			
	40 (19.8)	175 (35.9)	39 (26.2)	43 (32.3)			
	103 (51.0)	179 (36.8)	67 (45.0)	56 (42.1)			
	52 (25.7)	74 (15.2)	30 (20.1)	12 (9.0)			
6. Reconsider therapeutic medicines based on the condition of home care patients	0 (0.0)	6 (1.2)	2 (1.3)	3 (2.3)	< 0.001	< 0.001	< 0.001
	1 (0.5)	29 (6.0)	4 (2.7)	6 (4.5)			
	25 (12.4)	156 (32.0)	37 (24.8)	26 (19.5)			
	83 (41.1)	185 (38.0)	66 (44.3)	70 (52.6)			
	93 (46.0)	111 (22.8)	40 (26.8)	28 (21.1)			
7. Collaborate with health care and welfare service personnel to collect information about living conditions	2 (1.0)	7 (1.4)	2 (1.3)	6 (4.5)	< 0.001	0.09	< 0.001
	2 (1.0)	27 (5.5)	6 (4.0)	6 (4.5)			
	27 (13.4)	146 (30.0)	31 (20.8)	29 (21.8)			
	85 (42.1)	210 (43.1)	65 (43.6)	63 (47.4)			

of home care patients	86 (42.6)	97 (19.9)	45 (30.2)	29 (21.8)			
8. Provide consultation to patients about their illness	2 (1.0)	8 (1.6)	4 (2.6)	6 (4.5)	NA	< 0.001	< 0.001
	3 (1.5)	26 (5.3)	10 (6.6)	23 (17.3)			
	13 (6.4)	117 (24.0)	33 (21.9)	30 (22.6)			
	72 (35.5)	213 (43.7)	49 (32.5)	54 (40.6)			
	113 (55.7)	123 (25.3)	55 (36.4)	20 (15.0)			
9. Provide consultation to patients about over-the-counter drugs	1 (0.5)	4 (0.8)	4 (2.7)	5 (3.8)	< 0.001	< 0.001	< 0.001
	0 (0.0)	25 (5.1)	7 (4.7)	7 (5.3)			
	18 (8.9)	146 (30.0)	42 (28.0)	21 (15.8)			
	74 (36.5)	201 (41.3)	54 (36.0)	68 (51.1)			
	110 (54.2)	111 (22.8)	43 (28.7)	32 (24.1)			
10. Provide consultation to patients about non-pharmaceutical health promotion (supplements, diet, and exercise)	4 (2.0)	13 (2.7)	5 (3.3)	7 (5.3)	NA	< 0.001	< 0.001
	2 (1.0)	32 (6.6)	14 (9.3)	19 (14.3)			
	24 (11.8)	163 (33.5)	51 (34.0)	37 (27.8)			
	82 (40.4)	192 (39.4)	56 (37.3)	50 (37.6)			
	91 (44.8)	87 (17.9)	24 (16.0)	20 (15.0)			
11. Provide online medication education to outpatients and home care patients	1 (0.5)	3 (0.6)	0 (0.0)	2 (1.5)	0.06	0.46	0.51
	3 (1.5)	23 (4.7)	6 (4.0)	5 (3.8)			
	51 (25.2)	164 (33.7)	48 (32.0)	29 (21.8)			
	90 (44.6)	192 (39.4)	65 (43.3)	70 (52.6)			
	57 (28.2)	105 (21.6)	31 (20.7)	27 (20.3)			

12. Store sufficient medicines at hospitals and pharmacies to prepare for a large-scale disaster	3 (1.5)	0 (0.0)	0 (0.0)	1 (0.8)	< 0.001	1.00	1.00
	2 (1.0)	20 (4.1)	1 (0.7)	4 (3.0)			
	34 (16.7)	133 (27.3)	24 (16.0)	22 (16.5)			
	74 (36.5)	187 (38.4)	55 (36.7)	52 (39.1)			
	90 (44.3)	147 (30.2)	70 (46.7)	54 (40.6)			
13. Recommend preventive medicine (e.g., lifestyle changes, hospital visits and medical checkups) to patients	2 (1.0)	5 (1.0)	1 (0.7)	7 (5.3)	< 0.001	< 0.001	< 0.001
	0 (0.0)	17 (3.5)	8 (5.3)	13 (9.8)			
	18 (8.8)	160 (32.9)	32 (21.3)	26 (19.5)			
	82 (40.2)	197 (40.5)	72 (48.0)	51 (38.3)			
	102 (50.0)	108 (22.2)	37 (24.7)	36 (27.1)			
14. Actively communicate with patients to establish better relationships	0 (0.0)	5 (1.0)	0 (0.0)	1 (0.8)	< 0.001	< 0.001	< 0.001
	0 (0.0)	15 (3.1)	1 (0.7)	2 (1.5)			
	3 (1.5)	113 (23.2)	13 (8.7)	9 (6.8)			
	38 (18.7)	219 (45.0)	54 (36.0)	41 (30.8)			
	162 (79.8)	135 (27.7)	82 (54.7)	80 (60.2)			
15. Obtain information on local hospitals and nursing homes	2 (1.0)	3 (0.6)	0 (0.0)	3 (2.3)	< 0.001	0.038	1.00
	3 (1.5)	19 (3.9)	3 (2.0)	4 (3.0)			
	20 (9.9)	149 (30.6)	33 (22.0)	18 (13.5)			
	101 (49.8)	205 (42.1)	69 (46.0)	63 (47.4)			
	77 (37.9)	111 (22.8)	45 (30.0)	45 (33.8)			
