

Table 1 Summary of questionnaires regarding Lanzhou senior citizens' demand for medical and elderly care combination and influence factors thereof

Questionnaire	Number of Items	Investigation Index	Reference or CitingSource
General demography	6	Gender, age, education background, marital status, pre-retirement occupation, number of offspring	[12-19,32-43], Tracking Survey of Health and ElderlyCare in China
Health condition	3	Self-assessed health condition, incidence of chronic disease, activity of daily living	[12-19,32-43],Tracking Survey of Health and Elderly Care in China, the Fifth National Health Service Survey-Family Health Inquiry Questionnaire
Medical endowment insurance	5	Medical insurance, endowment insurance, monthly income, living status, current elderly care method	[12-19,32-43],Tracking Survey of Health and Elderly Care in China, the Fifth National Health Service Survey-Family Health Inquiry Questionnaire

Continue to Table1

Questionnaire	Number of Items	Investigation Index	Reference or Citing Source
Understanding of and demand for the combination with medical care		Knowledge of the combination with medical care , demand for the combination with medical care, the current way of old-age care, Willingness to pay in combination with medical care	[12-19,32-43]

Table 2 Comparisons of old-age demand on "medical-nursing combination" with different social demographic characteristics of the elderly

Independent variable	Number	%	Demand rate	Chi-square	<i>P</i>
Gender					
Male	3059	41.79	1749(57.18)	6.67	0.000
Female	4261	58.21	2023(47.48)		
Age(years)					
60-70	5682	77.62	2814(49.52)	3.635	0.162
71-80	1584	21.64	923(58.27)		
>80	84	1.15	35(41.67)		
Marital status					
Married	5812	79.4	2913(50.12)	9.46	0.000
Unmarried	81	1.11	10(12.35)		
Divorced or widowed	1427	19.49	84(5.89)		
Education					
Elementary school and below	404	5.52	183(45.3)	12.54	0.000
Junior high school	1437	19.63	757(52.68)		
Senior high school or technical secondary school	2560	34.97	1217(47.54)		
Junior college	2380	32.51	1265(53.15)		
Bachelor degree or above	539	7.36	350(64.94)		
Pre-retirement occupation					
State functionary	472	6.45	294(62.29)	43.50	0.000
Public institution personnel	1437	19.63	946(65.83)		
Enterprise staffs	2403	32.83	1123(46.73)		
Other	3008	41.09	1409(46.84)		
Number of children					
0	0	0.00		33.20	0.000
1	1062	14.51	799(75.24)		
2	2166	29.59	1237(57.11)		
≥ 3	4092	55.90	1736(42.42)		
Self-rated health					
Good	3388	46.28	1771(41.57)	31.027	0.000
Fair	3268	44.64	1725(52.27)		
Poor	664	9.07	276(52.78)		
Have chronic diseases					
Yes	3694	50.46	1955(52.92)	1.395	0.901
No	3626	49.54	1817(50.11)		
Self-care ability					
Have self-care ability	5231	71.46	2041(39.02)	43.38	0.000
Need help from others	1890	25.82	1572(83.17)		
No self-care ability	199	2.72	159(79.90)		

Continue to Table 2

Independent variable	Number	%	Demand rate	Chi-square	<i>P</i>
Type of medical insurance					
Medical insurance for urban workers	1817	24.82	958(52.72)	37.18	0.000
Medical insurance for urban and rural residents	3930	53.69	2065(52.54)		
Commercial insurance	590	8.06	477(80.85)		
Not have	983	13.43	272(27.67)		
Type of endowment insurance					
Endowment insurance for urban workers	3791	51.79	1992(52.55)	29.87	0.000
Endowment insurance for urban and rural residents	2378	32.49	1142(48.02)		
Enterprise annuity	334	4.56	223(66.77)		
Commercial insurance	111	1.52	50(45.05)		
Not have	706	9.64	335(47.45)		
Income per month(RMB)					
<2000	1338	18.28	593(44.32)	17.85	0.000
2000-4000	2378	32.49	1207(50.76)		
4000-6000	2192	29.95	1142(52.10)		
>6000	1412	19.29	830(58.78)		
Living arrangement					
Not alone	5902	80.63	3079(52.17)	4.708	0.079
Alone	1418	19.37	693(48.87)		
The current way of old-age care					
Family endowment	6465	88.32	3177(49.14)	38.20	0.000
Community endowment	632	8.63	446(70.57)		
Institution endowment	223	3.05	149(66.82)		
Other	0	0.00			
Knowledge of the combination with medical care					
Never heard	4570	62.43	2093(45.8)	56.41	0.000
Heard but not understood	2155	29.44	1304(60.51)		
Have gained some understanding	557	7.61	369(66.25)		
Know well	38	0.52	6(15.79)		
Demand of the elderly					
Medical care	1806	24.67	1101(60.96)	57.81	0.000
Assisted living	3733	51	1575(42.19)		
Mental care	220	3.01	122(55.45)		
Leisure and entertainment	1561	21.33	974(62.40)		

Continue to Table 2

Independent variable	Number	%	Demand rate	Chi-square	<i>P</i>
Willingness to pay in combination with medical care per month(RMB)					
<1000	1040	14.21	380(36.54)	69.64	0.000
1000-2000	1561	21.33	674(43.18)		
2000-3000	2192	29.95	1088(49.64)		
>3000	2527	34.52	1630(64.50)		

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Table 3 Variable definition for related factors and demand of the medical-nursing combined service

Variable Categories	Variable Name	Code
Gender	X1	Male =1, Female=2
Marital status	X2	Married=1, Unmarried=2, Divorced or widowed=3
Education	X3	Elementary school and below=1, Junior high school=2, Senior high school or technical secondary school=3, Junior college=4, Bachelor degree or above=5
Pre-retirement occupation	X4	State functionary=1, Public institution personnel=2, Enterprise staffs=3, Other
Number of children	X5	0 =1, 1 =2, 2 =3, $\geq 3=4$
Income per month(RMB)	X6	<2 000=1, 2 000~4 000=2, 4 000~6000=3, >6 000=4
Self-rated health	X7	Good=1, Fair=2, Poor=3
Type of endowment insurance	X8	Endowment insurance for urban workers=1, Endowment insurance for urban and rural residents=2, Enterprise annuity=3, Commercial insurance=4, Not have=5
Type of medical insurance	X9	Medical insurance for urban workers=1, Medical insurance for urban and rural residents=2, Commercial insurance=3, Not have=4
The current way of old-age care	X10	Family endowment=1, Community endowment=2, Institution endowment=3, Other=4
Demand of the elderly	X11	Medical care=1, Assisted living=2, Mental care=3, Leisure and entertainment=4
Self-care ability	X12	Have self-care ability=1, Need help from others=2, No self-care ability=3
Knowledge of the combination with medical care	X13	Never heard=1, Heard but not understood=2, Have gained some understanding=3, Know well=4
Willingness to pay in combination with medical care per month(RMB)	X15	<1000=1, 1000~2000=2, 2000~3000=3, >3000=4
Demand in combination of medical care	Y	Yes=1, No=2

Table 4 Logistic regression analysis including variables associated with medical-nursing combined service demand for the elderly

Independent variable	β	SE	P	OR	95% C.I. for OR	
					Lower	Upper
Gender	0.62	0.15	0.00	1.25	0.95	2.32
Marital status	0.27	0.14	0.09	0.93	0.59	1.47
Education	0.34	0.08	0.15	1.17	0.92	2.49
Pre-retirement occupation	0.14	0.09	0.00	1.15	0.90	1.26
Number of children	0.50	0.13	0.00	1.39	1.03	2.15
Income per month(RMB)	0.25	0.17	0.19	1.21	0.87	1.91
Self-rated health	-0.46	0.12	0.00	0.67	0.52	0.83
Type of endowment insurance	-0.12	0.11	0.43	0.93	0.67	1.23
Type of medical insurance	0.59	0.22	0.00	1.65	1.23	2.45
The current way of old-age care	-0.43	0.18	0.01	0.61	0.42	0.91
Demand of the elderly	-0.63	0.17	0.00	0.53	0.37	0.72
Self-care ability	-1.23	0.28	0.00	0.34	0.12	0.65
Knowledge of the combination with medical care	-0.59	0.32	0.00	0.71	0.39	0.83
Willingness to pay in combination	0.90	0.34	0.00	1.94	1.17	2.64