

TABLE 1. Count of providers by accreditation level, organizational type and geographical region

Geographical region	Northern N=14		Central N=12		Southern N=12		Eastern N=2		Total N=40	
	n	(%)	n	(%)	n	(%)	n	(%)	n	(%)
Accreditation level										
Medical center	8	(57.1)	4	(33.3)	5	(41.7)	1	(50.0)	18	(45.0)
Regional hospital	5	(35.7)	5	(41.7)	7	(58.3)	1	(50.0)	18	(45.0)
District hospital	1	(7.1)	3	(25.0)	0	(0.0)	0	(0.0)	4	(10.0)
Organizational type										
Public	4	(28.6)	1	(8.3)	2	(16.7)	0	(0.0)	7	(17.5)
Non-profit	10	(71.4)	5	(41.7)	8	(66.7)	2	(100.0)	25	(62.5)
For-profit	0	(0.0)	6	(50.0)	2	(16.7)	0	(0.0)	8	(20.0)

TABLE 2. Frequency of selected cancers by geographical region

Geographical region	Northern N=4,585		Central N=1,843		Southern N=1,605		Eastern N=488		Total N=7,791	
	n	(%)	n	(%)	n	(%)	n	(%)	n	(%)
Type of cancer										
Head & neck cancers	742	(48.6)	334	(21.9)	364	(23.9)	86	(5.6)	1,526	(100)
Breast cancer	1,402	(58.0)	508	(21.0)	399	(16.5)	107	(4.4)	2,416	(100)
Colorectal cancer	1,209	(59.1)	454	(22.2)	272	(13.3)	110	(5.4)	2,045	(100)
Esophageal cancer	105	(50.0)	49	(23.3)	38	(18.1)	18	(8.6)	210	(100)
NSC lung cancer *	547	(46.9)	287	(24.6)	256	(22.0)	76	(6.5)	1,166	(100)
Lymphoma	245	(57.2)	97	(22.7)	67	(15.7)	19	(4.4)	428	(100)

* NSC lung cancer indicates non-small cell lung cancer.

TABLE 3. Univariate analysis of patient and provider characteristics by cancer type between patients with and without PET examination

Cancer type	Head & neck cancers				Breast cancer					Colorectal cancer					Esophageal cancer					NSC lung cancer *					Lymphoma										
	No		Yes		p	No		Yes			p	No		Yes			p	No		Yes			p	No		Yes			p						
	n	%	n	%		n	%	n	%	n		%	n	%	n	%		n	%	n	%	n		%	n	%	n	%		n	%				
All	1,050	87	156	13		1,666	93	117	7		1,184	90	135	10		123	78	35	22		740	86	124	14		279	80	69	20						
Patient characteristics																																			
Gender					0.21						1						0.83						0.16						0.09						0.7
Female	213	20	25	16		1,660	100	117	100		497	42	58	43		8	6	5	14		263	35	54	44		108	39	25	36						
Male	837	80	131	84		6	0	0	0		687	58	77	57		115	94	30	86		477	65	70	56		171	61	44	64						
Age (years)					0.3						0.69						0.003						0.55						0						0.18
< 55	535	51	85	54		984	59	69	59		360	22	29	21		44	36	12	34		115	15	30	24		119	43	38	55						
55 - 64	246	23	40	26		397	24	31	27		233	20	43	32		28	23	11	32		152	21	35	28		51	18	10	15						
≥ 65	269	26	31	20		285	17	17	14		691	58	63	47		51	41	12	34		473	64	59	48		109	39	21	30						
Income †					0.28						0.94						0.51						0.27						0.03						0.96
< 10,000	405	39	54	35		714	43	52	45		633	54	77	57		51	41	17	49		411	56	58	47		153	55	37	54						
10,000-19,999	340	32	47	30		379	23	26	22		309	26	29	21		53	43	10	28		209	28	34	27		76	27	20	29						
≥ 20,000	305	29	55	35		573	34	39	33		242	20	29	22		19	16	8	23		120	16	32	26		50	18	12	17						
Region					0.49						0.01						0.36						0.19						0.01						0.95
Northern	556	53	73	47		1,027	61	56	48		755	63	87	64		59	48	21	60		378	51	70	57		168	60	42	61						
Central	228	22	37	24		344	21	30	26		247	21	23	17		34	28	6	17		182	25	25	20		59	21	14	20						
Southern	217	21	39	25		234	14	21	18		125	11	20	15		21	17	3	9		144	19	15	12		40	14	9	13						
Eastern	48	4	7	4		61	4	10	8		57	5	5	4		9	7	5	14		36	5	14	11		12	5	4	6						

* NSC lung cancer indicates non-small cell lung cancer.

† Income indicates monthly income in Taiwan New Dollars (TWD). One US Dollar is currently worth approximately 32 TWD.

TABLE 3 (continued). Univariate analysis of patient and provider characteristics by cancer type between patients with and without PET examination

Cancer type	Head & neck cancers				Breast cancer				Colorectal cancer				Esophageal cancer				NSC lung cancer				Lymphoma				p
	No		Yes		No		Yes		No		Yes		No		Yes		No		Yes						
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%					
Clinical features																									
Metastasis					0.45				0.66				1				0.52				0.88				1
No	1,037	99	153	98	1,657	99	116	99	1,175	99	134	99	104	85	28	80	733	99	123	99	276	99	69	100	
Yes	13	1	3	2	9.0	1	1.0	1	9.0	1	1.0	1	19	15	7	20	7	1	1	1	3	1	0	0	
Multiple cancers					0.41				0.02				0.87				1				0				0.96
No	926	88	134	86	1,600	96	107	91	1,020	86	117	87	121	98	35	100	681	92	104	84	215	77	53	77	
Yes	124	12	22	14	66	4	10	9	164	14	18	13	2	2	0	0	59	8	20	16	64	23	16	23	
Comorbidities					0.53				0.50				0.97				0.24				0.94				0.35
No	660	63	94	60	1,073	64	79	67	524	44	60	44	70	57	16	46	260	35	44	35	169	61	46	67	
Yes	390	67	62	40	593	36	38	33	660	56	75	56	53	43	19	54	480	65	80	65	110	39	23	33	
Accreditation level					<0.0001				0.0004				<0.0001				0.22				<0.0001				<0.0001
Medical center	896	85	113	72	1,316	79	76	65	993	84	89	66	111	90	29	83	629	85	85	69	239	86	43	62	
Non-medical ctr.	154	15	43	28	350	21	41	35	191	16	46	34	12	10	6	17	111	15	39	31	40	14	26	38	
Organizational type					<0.0001				0.0005				0.67				0.93				0.19				0.31
Public	544	52	48	30	641	38	34	29	459	39	48	36	59	48	18	51	362	49	51	41	136	49	32	46	
Non-profit	493	47	107	69	994	60	75	64	691	58	84	62	61	50	17	49	369	50	70	57	135	48	37	54	
For-profit	13	1	1	1	31	2	8	7	34	3	3	2	3	2	0	0	9	1	3	2	8	3	0	0	

TABLE 4. Multivariate logistic regression of the likelihood of undergoing PET scan

Independent variables	Odds ratio	(95% CI) *
Patient characteristics		
Male gender (vs. Female)	1.02	(0.82-1.25)
Age, year (vs. ≥ 65)		
< 55	1.51	(1.20-1.90)
55 - 64	1.64	(1.30-2.08)
Income (vs. $\geq 20,000$) †		
< 10,000	1.03	(0.83-1.29)
10,000 - 19,999	0.86	(0.67-1.10)
Region (vs. Northern)		
Central	1.10	(0.88-1.39)
Southern	0.95	(0.74-1.23)
Eastern	1.68	(1.18-2.38)
Clinical features		
Multiple cancers (vs. One cancer only)	1.42	(1.11-1.82)
Cancer type (vs. Breast cancer)		
Head & neck cancers	2.29	(1.69-3.11)
Colorectal cancer	1.93	(1.43-2.59)
Esophageal cancer	4.89	(3.05-7.83)
Non-small cell lung cancer	2.96	(2.17-4.03)
Lymphoma	3.79	(2.65-5.43)
Provider characteristics		
Accreditation level (vs. Medical center)		
Regional/District hospital	2.56	(2.05-3.21)
Organizational type (vs. Public)		
Non-profit	1.05	(0.86-1.29)
For-profit	0.63	(0.33-1.20)

* 95% CI indicates 95% confidence interval.

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