Multimedia Appendix 2

Table 5. Res	ults of chi-squared in	dependent tests for the	digital divide in DMS ital Medical Service (DN	
	Demographics	Awareness H1	Want H2	Adoption H3
Gender	Chi-squared	.41	.02	3.99
	df	1	1	1
	P-value	.524	.889	.046*
Age Group	Chi-squared	182.88	113.05	58.51
	df	5	5	5
	P-value	<.001*	<.001*	<.001*
Educational	Chi-squared	222.63	169.38	140.66
Level	df	5	5	5
	P-value	<.001*	<.001*	<.001*
Marital	Chi-squared	195.65	113.76	60.03
Status	df	2	2	2
	P-value	<.001*	<.001*	<.001*
Living Area	Chi-squared	62.20	37.39	124.60
	df	5	5	7
	P-value	<.001*	<.001*	<.001*
Personal	Chi-squared	198.37	119.17	117.89
monthly	df	7	7	8
Income	P-value	<.001*	<.001*	<.001*
Family	Chi-squared	135.86	133.92	23.78
Monthly	df	8	8	5
Income	P-value	<.001*	<.001*	<.001*
Computer	Chi-squared	204.77	184.64	60.88
owned	df	1	1	1
	P-value	<.001*	<.001*	<.001*
Internet	Chi-squared	125.25	177.90	149.83
Access	df	1	1	1

Data resource: This research

P-value

P-value means the p value of the Fisher's exact test or of Pearson Chi-squared test.

<.001*

<.001*

<.001*

H1, H2, H3 are alternative hypotheses. H1: There exists an awareness divide in e-health services across certain demographic variables, computer ownership, and internet access. H2: There exists a want divide in e-health services across certain demographic variables, computer ownership, and internet access. H3: There exists an adoption divide in e-health services across certain demographic variables, computer ownership, and internet access.

Table 6. Results of chi-squared independent tests for the digital divide in DHCS

	unis or our squareu mae,	Digital Home Care Service (DHCS)						
	Demographics	Awareness H1	Want H2	Adoption H3				
Gender	Chi-squared	5.99	.01	2.74				
	df	1	1	1				
	P-value	.014*	.920	.098				
Age Group	Chi-squared	48.03	69.92	5.19				
	df	5	5	5				
	P-value	<.001*	<.001*	.394				
Educational	Chi-squared	91.67	93.92	7.84				
Level	df	5	5	5				
	P-value	<.001*	<.001*	.165				
Marital	Chi-squared	37.50	70.88	5.65				
Status	df	2	2	2				
	P-value	<.001*	<.001*	.059				
Living Area	Chi-squared	17.94	31.55	6.51				
	df	5	5	5				
	P-value	.003*	<.001*	.259				
Personal	Chi-squared	72.11	67.13	14.17				
monthly	df	7	7	7				
Income	P-value	<.001*	<.001*	.048*				
Family	Chi-squared	64.08	68.00	21.08				
Monthly	df	8	8	8				
Income	P-value	<.001*	<.001*	.007*				
Computer	Chi-squared	47.46	133.49	5.17				
owned	df	1	1	1				
	P-value	<.001*	<.001*	.023*				
Internet	Chi-squared	57.75	98.20	13.19				
Access	df	1	1	1				
	P-value	<.001*	<.001*	<.001*				

Data resource: This research

P-value means the p value of the Fisher's exact test or of Pearson Chi-squared test.

H1, H2, H3 are alternative hypotheses. H1: There exists an awareness divide in e-health services across certain demographic variables, computer ownership, and internet access. H2: There exists a want divide in e-health services across certain demographic variables, computer ownership, and internet access. H3: There exists an adoption divide in e-health services across certain demographic variables, computer ownership, and internet access.

Table 7. P-values of the paired proportion tests for H4. H5, and H6 in DMS

	D.	emographics	Digital Medical Service (DMS)					
	Demographics		H4	H5	Н6			
Variables	ID	Items	P-value	P-value	P-value			
Total	T	<u> </u>	<.001	<.001	<.001			
Gender	G1	Male	<.001	<.001	<.001			
	G2	Female	<.001	<.001	<.001			
Age Level	A 1	15-24	<.001	<.001	<.001			
	A2	25-34	<.001	<.001	<.001			
	A3	35-44	<.001	<.001	<.001			
	A4	45-54	<.001	<.001	<.001			
	A5	55-64	<.001	<.001	<.001			
	A6	over 65	<.001	<.001	<.001			
Educational	E1	Below primary school	<.001	<.001	.105			
Level	E2	Junior high school	<.001	<.001	<.001			
	E3	Senior high school	<.001	<.001	<.001			
	E4	Junior college	<.001	<.001	<.001			
	E5	University	<.001	<.001	<.001			
	E6	Graduate and above	<.001	<.001	.339			
Marital		Single	<.001	<.001	<.001			
Status		Married or Cohabiting	<.001	<.001	<.001			
		Other*	<.001	<.001	.100			
Living Area	L1	Northern Area	<.001	<.001	<.001			
8	L2	Central Area	<.001	<.001	<.001			
	L3	Southern Area	<.001	<.001	<.001			
	L4	Eastern Area	<.001	<.001	.657			
	L5	Taipei City	<.001	<.001	<.001			
	L6	Kaohsiung City	<.001	<.001	.003			
Personal	P1	Less than US\$450	<.001	<.001	.001			
Monthly	P2	US\$451~ US\$650	<.001	<.001	.004			
Income	P3	US\$651~ US\$950	<.001	<.001	<.001			
	P4	US\$951~ US\$1,250	<.001	<.001	<.001			
	P5	US\$1,251~ US\$1,550	<.001	<.001	.001			
	P6	US\$1,551~ US\$2,250	<.001	<.001	<.001			
	P7	Above US\$2,251	<.001	<.001	.002			
	P8	DK or RA**	<.001	<.001	<.001			
Family	F1	No income or Unstable	<.001	<.001	.001			
Monthly		Less than US\$650	<.001	<.001	.030			
Income	F3	US\$651~ US\$1,250	<.001	<.001	<.001			
-	F4	US\$1,251~ US\$1,850	<.001	<.001	<.001			
	F5	US\$1,851~ US\$2,450	<.001	<.001	<.001			
	F6	US\$2,451~ US\$3,050	<.001	<.001	.003			
	F7	US\$3,051~ US\$4,650	<.001	<.001	<.003			
	F8	Above US\$4,651	<.001	<.001	.001			
	го F9	DK or RA**	<.001	<.001	<.003			
Computer	F9 C1	Own	<.001 <.001	<.001 <.001	<.001			
Computer Ownership	C2	Didn't own	<.001 <.001	<.001 <.001	<.001			
	L2 I1	Yes						
Internet	11	1 68	<.001	<.001	<.001			

^{*} Including divorced, separated, widower, or widow

**'DK or RA' represents "do not know" or "refuse to answer."

H4, H5, H6 are alternative hypotheses. H4: The adoption rate of a given e-health service is bound to consumers' corresponding awareness rate. H5: The adoption rate of a given e-health service is be bound to consumers' corresponding want rate. H6: The want rate for a given e-health service is not necessarily bound to consumers' corresponding awareness rate.

Table 8. P-values of the paired proportion tests for H4, H5, and H6 in DHCS

			ests for H4, H5, and H6 in DHCS Digital Home Care Service (DHCS)						
Г	Demographics	H4	Н5	Н6					
ID	Items	P-value	P-value	P-value					
T		<.001	<.001	<.001					
G1	Male	<.001	<.001	<.001					
G2	Female	<.001	<.001	<.001					
A1	15-24	<.001	<.001	<.001					
A2	25-34	<.001	<.001	<.001					
A3	35-44	<.001	<.001	<.001					
A4	45-54	<.001	<.001	<.001					
A5	55-64	<.001	<.001	<.001					
A6	over 65	<.001	<.001	<.001					
E1	Below primary school	<.001	<.001	<.001					
E2	Junior high school	<.001	<.001	<.001					
E3	Senior high school	<.001	<.001	<.001					
E4	Junior college	<.001	<.001	<.001					
E5	University	<.001	<.001	<.001					
E6	Graduate and above	<.001	<.001	.028					
M1	Single	<.001	<.001	<.001					
M2	Married or Cohabiting	<.001	<.001	<.001					
M3	Other*	<.001	<.001	.005					
L1	Northern Area	<.001	<.001	<.001					
L2	Central Area	<.001	<.001	<.001					
L3	Southern Area	<.001	<.001	<.001					
L4	Eastern Area	<.001	<.001	<.001					
L5	Taipei City	<.001	<.001	<.001					
L6	Kaohsiung City	<.001	<.001	<.001					
P1	Less than US\$450	<.001	<.001	<.001					
P2	US\$451~ US\$650	<.001	<.001	.003					
P3	US\$651~ US\$950	<.001	<.001	<.001					
P4	US\$951~ US\$1,250	<.001	<.001	<.001					
P5		<.001	<.001	.003					
P6		<.001	<.001	<.001					
				.015					
P8		<.001	<.001	<.001					
F1	No income or Unstable	<.001		.001					
F2	Less than US\$650	<.001		.004					
F3	US\$651~ US\$1,250			<.001					
F4	US\$1,251~ US\$1,850			<.001					
F5	US\$1,851~ US\$2,450		<.001	<.001					
				<.001					
F7	US\$3,051~ US\$4,650			<.001					
F8	Above US\$4,651			.001					
F9	DK or RA**			<.001					
-				<.001					
				.009					
				<.001					
12	No	<.001	<.001	<.001					
	ID T G1 G2 A1 A2 A3 A4 A5 A6 E1 E2 E3 E4 E5 E6 M1 M2 M3 L1 L2 L3 L4 L5 L6 P1 P2 P3 P4 P5 P6 P7 P8 F1 F2 F3 F4 F5 F6 F7 F8 F9 C1 C2 I1	G1 Male G2 Female A1 15-24 A2 25-34 A3 35-44 A4 45-54 A5 55-64 A6 over 65 E1 Below primary school E2 Junior high school E3 Senior high school E4 Junior college E5 University E6 Graduate and above M1 Single M2 Married or Cohabiting M3 Other* L1 Northern Area L2 Central Area L3 Southern Area L4 Eastern Area L5 Taipei City L6 Kaohsiung City P1 Less than US\$450 P2 US\$451~ US\$650 P3 US\$651~ US\$950 P4 US\$951~ US\$1,250 P5 US\$1,251~ US\$1,250 P6 US\$1,551~ US\$2,250 P7 Above US\$2,251 P8 DK or RA** F1 No income or Unstable F2 Less than US\$650 F3 US\$651~ US\$1,250 F4 US\$1,251~ US\$1,250 F5 US\$1,251~ US\$1,250 F6 US\$1,251~ US\$1,250 F7 US\$1,251~ US\$1,250 F8 Above US\$2,451 F9 DK or RA** C1 Own C2 Didn't own I1 Yes	Demographics	Demographics					

^{*} Including divorced, separated, widower, or widow

^{**&#}x27;DK or RA' represents "do not know" or "refuse to answer."

H4, H5, H6 are alternative hypotheses. H4: The adoption rate of a given e-health service is bound to consumers' corresponding awareness rate. H5: The adoption rate of a given e-health service is be bound to consumers' corresponding want rate. H6: The want rate for a given e-health service is not necessarily bound to consumers' corresponding awareness rate.

Table 9. P-values of the two independent proportion tests for H7, H8, and H9 in DMS

Table 9. P-values of the two independent proportion tests for H7, H8, and H9 in DMS										
Demographics/ Computer ownership/ Internet access		Digital Medical Service								
		H7			H8			Н9		
		Want rate (%)			Adoption rate (%)			Awareness rate (%)		
		Given unaware	Given Aware	P-value	Given Unwanted	Given wanted	P-value	Given Unwanted	Given wanted	P-value
Total			82.52	<.001		54.49	<.001			<.001
Gender	Male	51.30	81.55	<.001	10.99	51.90	<.001	71.95	91.50	<.001
	Female	42.37	83.47	<.001	8.68	57.01	<.001	64.53	92.59	<.001
Age Level	15-24	60.87	83.09	<.001	8.61	44.87	<.001	61.80	83.64	<.001
	25-34	61.01	86.05	.002	16.92	62.33	<.001	83.17	95.12	.003
	35-44	78.48	83.03	.572	6.07	58.66	<.001	93.65	95.19	.529
	45-54	65.96	81.80	.021	15.99	50.04	<.001	83.22	92.00	.021
	55-64	42.83	81.19	<.001	10.65	47.72	<.001	69.77	93.01	<.001
	over 65	16.02	76.95	<.001	4.58	60.92	<.001	40.28	92.19	<.001
Educationa	l Below primary school	22.09	75.30	<.001	4.12	53.16	<.001	39.04	87.32	<.001
Level	Junior high school	44.28	78.11	<.001	3.51	40.11	<.001	54.17	84.15	<.001
	Senior high school	57.46	77.96	<.001	9.22	47.35	<.001	78.31	90.44	<.001
	Junior college	69.91	86.78	.096	16.56	57.15	<.001	88.28	95.51	.095
	University	65.98	86.46	.001	18.22	61.89	<.001	83.26	94.24	.002
	Graduate and above	77.43	95.76	.500	20.10	68.40	.008	86.87	97.75	.424
Marital	Single	62.24	84.10	<.001	12.22	51.16	<.001	72.48	89.42	<.001
Status	Married or Cohabiting	46.86	82.09	<.001	9.54	57.55	<.001	74.93	93.95	<.001
	Other*	13.60	71.01	<.001	5.18	24.50	.004	23.11	82.38	<.001
Living	Northern Area	49.65	83.25	<.001	10.73	54.22	<.001	73.26	93.25	<.001
Area	Central Area	57.73	79.20	<.001	9.89	50.90	<.001	74.73	89.18	<.001
	Southern Area	46.65	82.94		9.44	56.55			91.39	<.001
	Eastern Area	76.29	85.90		10.41	47.58	.002	79.78	88.19	.407
	Taipei City	46.03	85.98	.001	15.12	60.93	<.001	78.93	96.42	.002
	Kaohsiung City		81.50			52.89	<.001		92.20	
Personal	Less than US\$450		78.43	<.001		52.75	<.001			<.001
monthly Income	US\$451~ US\$650		81.10			54.78	<.001		91.13	.006
Hicome	US\$651~ US\$950		84.32	.015		56.84	<.001		93.68	.016
	US\$951~ US\$1,250		85.26			56.89	<.001		95.51	.736
	US\$1,251~ US\$1,550		85.87	.332		58.71	<.001		94.38	.324
	US\$1,551~ US\$2,250		88.42	.432		73.38	<.001		99.08	.341
	Above US\$2,251		88.82	.487		46.59	.135		98.08	.487
	DK or RA**		77.11	<.001		43.18				<.001
Family Monthly	No income or Unstable		70.00			53.54			88.65	.176
Monthly Income	Less than US\$650		75.84			48.96			86.07	.001
meome	US\$651~ US\$1,250		78.50			48.84			89.98	
	US\$1,251~ US\$1,850		83.92			53.84			90.92	.022
	US\$1,851~ US\$2,450		86.95			61.00			94.62	.008
	US\$2,451~ US\$3,050		88.01	.111		61.49			94.77	.110
	US\$3,051~ US\$4,650		86.41	.313		60.53			95.34	.414
	Above US\$4,651		89.29			61.10			97.39	.051
_	DK or RA**		76.09			43.78	<.001			<.001
Computer Ownership	Own		83.64			54.85	<.001			<.001
-	Dian't own		66.01	<.001		48.27				<.001
Internet	Yes		86.38			58.58	<.001			<.001
Access	No	32.71	71.71	<.001	4.87	41.56	<.001	57.50	87.58	<.001

^{*} Including divorced, separated, widower, or widow **'DK or RA' represents "do not know" or "refuse to answer."

H7, H8, H9 are alternative hypotheses. H7: Want rate, given awareness for each consumer segment, is higher than want rate with unawareness. H8: Adoption rate, given want for each consumer segment, is higher than adoption rate without want. H9: Awareness rate, given want for each consumer segment, is higher than awareness rate without want.

Table 10. P-values of the two independent proportion tests for H7, H8, and H9 in DHCS

Table 10.1 - values of the two me		Digital Home Care Service					,			
Demographics/ Computer ownership/Internet access		H7		H8			H9			
		Given	Given		Adoption Given	Given		Awarenes Given	Given	
		unaware		P-value			P-value	Unwanted	wanted	P-value
Total		64.15	74.86		1.21	6.48	<.001	42.06	54.71	<.001
Gender	Male		75.86		1.11	7.43	<.001	42.07	57.95	.001
	Female	65.77	73.81	.001	1.32	5.55	<.001	42.06	51.56	<.001
Age Level	15-24		74.31	.244	1.85	7.73	.001	44.93	50.69	.244
8	25-34		75.50	.009	2.03	6.35	.006	42.99	54.53	.009
	35-44		75.87	.104	0.55	5.26	<.001	49.84	57.56	.104
	45-54		76.35	.919	2.10	4.71	.108	59.55	59.05	.919
	55-64	61.39	73.47	.103	1.15	5.52	.013	38.09	51.73	.013
	over 65		71.18		0.00	11.08	<.001	24.40	51.49	<.001
Educationa	Below primary school		73.29		0.00	7.74	<.001	17.13	44.88	<.001
l Level	Junior high school		71.06	.004	0.58	4.64	.032	34.40	52.78	.004
	Senior high school		72.41	.100	0.97	5.83	<.001	47.34	52.99	.099
	Junior college		76.41	.841	1.77	5.41	.044	59.56	60.67	<u>.840</u>
	University	72.04	77.70	.059	2.84	7.65	.002	47.61	55.14	.058
	Graduate and above	78.34	77.12	.868	0.00	7.40	.003	67.00	65.43	.868
Marital	Single	67.56	75.99	.002	1.94	7.28	<.001	43.29	53.71	.002
Status	Married or Cohabiting	66.66	74.22	<.001	1.00	6.08	<.001	46.33	55.42	<.001
	Other*	24.01	75.68	<.001	0.00	4.68	.130	9.70	51.41	<.001
Living	Northern Area	69.33	72.15	.334	1.32	7.09	<.001	49.12	52.53	.334
Area	Central Area	66.09	75.42	.005	2.23	7.31	.001	46.36	57.65	.005
	Southern Area	59.30	74.56	<.001	0.99	6.03	<.001	37.31	54.49	<.001
	Eastern Area	80.76	80.41	.967	3.31	3.46	<u>.976</u>	52.67	52.11	<.001
	Taipei City	67.65	79.93	.008	0.00	3.56	.002	40.76	56.72	<u>.957</u>
	Kaohsiung City	44.51	74.90	<.001	0.00	8.98	<.001	22.73	52.25	.007
Personal	Less than US\$450	57.97	74.10	<.001	0.65	7.53	<.001	31.41	48.72	<.001
monthly	US\$451~ US\$650	65.84	71.53	.377	3.36	7.48	.190	51.03	57.59	.377
Income	US\$651~ US\$950	65.33	77.17	.003	0.39	6.50	<.001	41.19	55.69	.003
	US\$951~ US\$1,250	74.81	78.37	.384	2.93	6.10	.140	48.93	53.88	.384
	US\$1,251~ US\$1,550	70.30	76.17	.291	2.21	6.34	.091	57.33	64.47	.282
	US\$1,551~ US\$2,250	84.91	78.91	.257	3.40	6.84	.412	69.02	59.71	.260
	Above US\$2,251	80.48	79.16	.865	0.00	10.98	<.001	68.00	66.19	<u>.856</u>
	DK or RA**	54.52	67.85	.001	0.45	3.86	.001	35.46	49.17	.001
Family	No income or Unstable	48.34	72.91	.011	0.00	1.02	.507	24.56	48.35	.012
Monthly	Less than US\$650	44.10	76.44	<.001	0.98	4.74	.143	25.85	58.91	<.001
Income	US\$651~ US\$1,250	65.97	73.29	.083	1.40	6.61	.002	38.15	46.62	.083
	US\$1,251~ US\$1,850	66.86	79.63	1<.00	0.00	6.29	<.001	44.90	61.23	.001
	US\$1,851~ US\$2,450	71.01	73.88	<u>1</u> .642	2.18	7.98	.004	53.48	55.95	642
	US\$2,451~ US\$3,050		76.05	.603	4.14	5.94	.545	51.63	55.00	<u>.642</u> <u>.603</u>
	US\$3,051~ US\$4,650		77.39		2.56	8.91	.022	65.56	60.74	<u>.487</u>
	Above US\$4,651		78.53	.077	0.00	10.94	<.001	44.41	60.58	.072
	DK or RA**			0.003	0.50	3.74	.005	34.50	47.01	.003
Computer	Own			0.003	1.39	6.56	<.003	47.76	54.78	.003
-	Didn't own		67.58		0.45	5.03	.033	16.91	53.50	
Internet	Yes		76.67		2.10	7.04	<.001	51.59	56.59	.044
Access	No		69.08		0.00	4.74	<.001	29.06	48.93	<.001
	e: This research	70.00	07.00	\.001	0.00	-T. / -T	\.UU1	27.00	70.73	\.UU1

^{*} Including divorced, separated, widower, or widow **'DK or RA' represents "do not know" or "refuse to answer."

H7, H8, H9 are alternative hypotheses. H7: Want rate, given awareness for each consumer segment, is higher than want rate with unawareness. H8: Adoption rate, given want for each consumer segment, is higher than adoption rate without want. H9: Awareness rate, given want for each consumer segment, is higher than awareness rate without want.