

Appendix

Appendix I. Table S1

Table S1. Logistic Regression analysis predicting Action of organ donation with the proposed factors

		Univariate analysis		Multivariable analysis	
		Odds ratio, 95% CI	P value ¹	Odds ratio, 95% CI	P value ²
(1) Belief	I think the preservation of an intact body after death is important.	0.683 (0.372, 1.253)	.218		
	I think the body will be disfigured when the organs are removed.	1.01 (0.589, 1.724)	0.978		
	I think donating one's organs adds meaning to one's life.	1.70 (0.623, 4.623)	0.301		
	I think live organ donation is better than cadaveric organ donation in solving the problem of organ shortage.	0.875 (0.547, 1.398)	0.575		
	I think donating organs is an action to save lives.	834673.15 (0.00, inf)	0.983		
	My family would object if I were to donate my organs.	0.520 (0.286, 0.946)	0.032*	0.770 (0.353, 1.680)	0.521
	I think there will be premature termination of medical treatment for registered organ donors.	1.159 (0.561, 2.371)	0.697		
	I think it is convenient to register as an organ donor in Hong Kong.	6.612 (3.084, 14.176)	<0.001***	3.751 (1.616, 8.710)	0.002**
	I think the promotion and information of organ donation in Hong Kong is sufficient.	0.861 (0.517, 1.435)	0.566		
(2) Commitment	I will agree to the donation of my family members' organs.	3.048 (1.398, 6.649)	0.005**	2.234 (0.881, 5.560)	0.090
	I have discussed the organ donation with my family.	4.797 (2.960, 7.773)	<0.001***	3.083 (1.748, 5.440)	<0.001***
	I have received training in how to request organ donation in potential donors or their family members.	2.089 (0.977, 4.467)	0.058		
	I am a regular blood donor.	4.574 (2.693, 7.770)	<0.001***	3.810 (2.012, 7.210)	<0.001***
	I volunteer regularly.	1.398 (0.884, 2.209)	0.152		

(3) Perceived confidence and competence	I feel uncomfortable to think or talk about organ donation.	0.639 (0.269, 1.515)	0.309		
	I am confident in counseling patients regarding the issues of organ donation.	1.131 (0.715, 1.790)	0.599		
	I am confident in approaching family members of potential donors diagnosed brain death and discussing issues related to organ donation.	1.028 (0.645, 1.638)	0.909		
(4) Exposure	I know family members or close friends who have registered as an organ donor.	6.626 (3.960, 11.090)	<0.001***	4.283 (2.370, 7.740)	<0.001***
	I know people who have benefited or are in need of an organ transplant.	1.369 (0.801, 2.339)	0.251		
(5) Death competence	Self-Competence in Death Work Scale	1.556 (1.060, 2.283)	.024*	1.166 (0.715, 1.900)	0.538
(6) Knowledge	Overall Knowledge of Organ donation	20.1 (2.950, 138)	0.002**	1.031 (1.006, 1.060)	0.013*
	Medical knowledge of organ transplantation	7.234 (2.050, 25.468)	0.002** ³		
	Brain death	2.504 (0.891, 7.036)	0.082		
	Supply and demand of cadaveric organ	0.712 (0.262, 1.930)	0.506		
	Donor registration	1.399 (0.848, 2.307)	0.189		
	Medico-legal issues	1.152 (0.699, 1.898)	0.579		

Note:

¹ P values of univariate analysis were obtained by logistic regression.

² P values of multivariable analysis were obtained by logistic regression including all the significant factors in the univariate analysis and controlled for age, gender, and university.

³ Medical knowledge of organ transplantation was not included in the multivariable model because of significant collinearity with overall Knowledge of Organ donation.

* p < 0.05; ** p < 0.01; *** p < 0.001.

Appendix II. Questionnaire

1. Demographics

Gender: Male/ Female/ Others

Year of study: Year 1/ Year 2/ Year 3/ Year 4/ Year 5/ Year 6

Age:

2. Attitude to Organ donation

True or False questions:

1. I support organ donation.
2. I have thought about registering for organ donation.

3. Action of Organ donation

True or False questions:

1. I have registered as an organ donor.

4. Factors influencing attitude and knowledge

(4.1) Belief and perception on death and organ donation

True or False questions:

1. I think the preservation of an intact body after death is important.
2. I think the body will be disfigured when the organs are removed.
3. I think donating one's organs adds meaning to one's life.
4. I think live organ donation is better than cadaveric organ donation in solving the problem of organ shortage.
5. I think donating organs is an action to save lives.
6. My family would object if I were to donate my organs.
7. I think there will be premature termination of medical treatment for registered organ donors.
8. I think it is convenient to register as an organ donor in Hong Kong.
9. I think the promotion and information of organ donation in Hong Kong is sufficient.

(4.2) Commitment towards Organ donation

True or False questions:

1. I will agree to the donation of my family members' organs.
2. I have discussed the organ donation with my family.

3. I have received training in how to request organ donation in potential donors or their family members.
4. I know how to register as an organ donor.
5. I am a regular blood donor.
6. I volunteer regularly.

(4.3) Perceived confidence and competence on discussing organ donation

True or False questions:

1. I feel uncomfortable to think or talk about organ donation.
2. I am confident in counseling patients regarding the issues of organ donation.
3. I am confident in approaching family members of potential donors diagnosed brain death and discussing issues related to organ donation.

(4.4) Exposure to registered organ donors and potential organ recipients

True or False questions:

1. I know family members or close friends who have registered as an organ donor.
2. I know people who have benefited or are in need of an organ transplant.

(4.5) Self-competence in death work

Please rate the compatibility between your own current attitudes and situations in real life for the following items, on a scale of 1 (completely incompatible) to 5 (completely compatible).

1. I can fully accept that I cannot completely control life, for example, the life and death of patient/service user.
2. I can fully accept that suffering is inevitable, for example, the suffering of patient/service user during the dying process.
3. I am prepared for my death and that of my family, for example, being open to discuss death with my family, or think about my funeral.
4. I have finished most of my business, which has reduced my life regrets.
5. Confronted by uncertainties in life, I take things less for granted and apply this to my life.
6. Confronted by uncertainties in life, I live my life more positively and have found my meaning in life.

5. Knowledge of Organ Donation

True or False questions:

1. Malignancy is ALWAYS a contra-indication to cadaveric organ donation.

2. The donor's human leukocyte antigen MUST be identical to that of the recipient for any transplantation.
3. The donor's and recipient's blood group MUST be identical.
4. Organ transplant recipients are more prone to development of cancer after transplantation.
5. Hepatitis B and C carriers can donate all of their solid organs except the liver.
6. It is possible to transplant an adult liver into a paediatric patient.
7. Increased risk of opportunistic infections is a complication common to all transplantations.
8. In a brain-dead patient, all brain stem reflexes are absent.
9. The heart can be beating in a brain-dead patient.
10. A certified brain-dead registered organ donor will be immediately disconnected from mechanical ventilation support.
11. More than 20% of the people on the renal transplant waiting list will receive an organ within a year in Hong Kong.
12. Registration of organ donors bears no age restriction.
13. About 35 cadaveric livers are supplied in Hong Kong each year.
14. The organ donation rate in Hong Kong is amongst the top 10 of the world.
15. Having registered as an organ donor, consent from next-of-kin is still legally necessary for the removal of organs.