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A public opinion survey: is presumed consent the answer to kidney shortage in Hong Kong?

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ABSTRACT

Objective: To project the impact of an opt-out system (presuming consent) in Hong Kong on the likelihood that a potential donor donates his or her kidneys after death and the likelihood of violating a potential donor's autonomy.

Setting: Cross-sectional population-based anonymous telephone survey.

Participants: Random sample of 802 adults aged between 18 and 64.

Main outcome measure: Willingness to donate their own kidneys after death and their willingness to donate the kidneys of a deceased family member in different hypothetical situations under the current opt-in system and under our proposed soft version of an opt-out system.

Results: When the wish of the deceased is unknown, 72.6% (n=583) of the respondents said that under the proposed opt-out system, they would definitely or likely consent to donating the kidneys of a deceased family member, significantly more than under the current opt-in system (OR 2.53, 95% Cl 2.06 to 3.11). An opt-out system could significantly improve the projected overall donation potential from 0.631 to 0.771 (OR 1.97, 95% Cl 1.58–2.45) and reduce the projected overall chance of violating the autonomy of a potential donor from 0.292 to 0.127 (OR 0.35, 95% Cl 0.27 to 0.45). **Conclusions:** A switch to an opt-out system in Hong Kong would likely result in the wishes of more people being followed and raise the overall cadaveric kidney

donation rate.

INTRODUCTION

At the end of the year 2011, more than 7000 people in Hong Kong were suffering from end-stage renal failure and 1781 people were on the waiting list for a kidney transplant. But there were only 59 cases of cadaveric kidney transplant in 2011, equivalent to 8.34 donations/million population. In other words, we are facing shortage of kidneys in Hong Kong as in many other parts of the world.

Hong Kong currently has an explicit consent system that requires individuals to opt in to allow their kidneys to be used after

ARTICLE SUMMARY

Article focus

- To project the impact of an opt-out system (presuming consent) in Hong Kong on the likelihood that a potential donor donates his or her kidneys after death.
- To project the impact of an opt-out system (presuming consent) in Hong Kong on the likelihood of violating a potential donor's autonomy.

Key message

An opt-out system could significantly improve the projected overall donation potential from 0.631 to 0.771 (OR 1.97, 95% CI 1.58 to 2.45) and reduce the projected overall chance of violating the autonomy of a potential donor from 0.292 to 0.127 (OR 0.35, 95% CI 0.27 to 0.45).

Strengths and limitations of this study

- In light of the hesitation to switch to an opt-out system, the study may be useful with a view to refuting the speculative claim that an opt-out system has the potential to impact negatively on the donation rate and patients' autonomy.
- The projection on the donation potential and chance of violating one's autonomy was based on self-reported preferences and intentions. There may be overestimation or underestimation.

death by signing a donor card or signing up on the central organ donation register (CODR) online, by post or by fax. Permission from the family is necessary if a potential donor has not registered a wish to donate the kidneys before death. Even if an individual has a donor card or has joined the CODR, it is common practice in Hong Kong to speak to the family if possible.

In other words, our current practice assumes that, when one dies, he or she is among the minority who do not wish to donate unless he or she has opted in. We hypothesise that by changing the default position to presumed consent—assuming people want to donate unless they opt out—we could help save more lives while respecting the wishes of those who

wish to donate and protecting the rights of those who do not. We propose a soft version of opt-out policy that would continue to involve the family. Even if an individual has not opted out, the family would be asked whether they are aware that the person has any unregistered objection. We would not proceed if the answer is yes. The organs would not be used in case the family raise objection even if the answer is no.

Notwithstanding a number of studies showing that countries that implement an opt-out policy had higher donation rates than those that do not,^{1 '2} opponents argued that a strategy working in one society might not work in another,³ due to the variations in legislation, availability of donors and infrastructure of the transplantation service in different countries.⁴ Critics have also expressed concerns that to presume consent would strip people of the right to make their own choice undermining their autonomy.⁵ In the circumstances, we conducted a survey of a representative sample of individuals in Hong Kong to estimate whether an opt-out system would increase the likelihood that a potential donor donates his or her kidneys after death and whether it would increase the likelihood of violating a potential donor's autonomy.

METHODS

Data collection

The target population was Hong Kong permanent residents aged between 18 and 60. With the required sample size being 784 to permit estimation of 95% CI with at the most a 3.5% margin of error, we conducted a public opinion survey attempting to interview 800 respondents. The interviews took place from 30 June to 14 July 2012 during the times of 08:00 to 22:30 on weekdays, and 15:00 to 22:30 on weekends, to improve the representativeness of respondents. The telephone numbers of households were generated by random-digit dialling such that every residential telephone number in Hong Kong had an equal probability of selection. Upon reaching a household, if more than one member was eligible, we invited the one whose next birthday was soonest to the survey date to participate. At least five different calls were made at different hours and days before we considered a number invalid. Verbal consent was obtained from the respondents and each interview took about 7 min.

Structure of the survey

The survey was composed of four parts. In the first part, we asked the respondents whether they intend to donate their kidneys after death, whether they have registered as a donor and whether they have already discussed with their family. After a few questions about the present registration system and a brief introduction to brain death, we started the second part which concerned the likelihood that under the current explicit consent system the respondents would agree to donate the kidneys of a
 Table 1
 Characteristics of respondents of the original sample (n=802)

Variables	Percentage of respondents	Percentage of Hong Kong Population Census 2011
Men		
18–24	7.11	6.13
25–34	5.61	9.00
35–44	6.98	9.38
45–54	10.2	12.0
55–64	8.35	9.13
Women		
18–24	6.61	6.25
25–34	6.11	12.5
35–44	15.5	13.0
45–54	17.8	13.5
55–64	15.7	9.13
Working status		
Working	66.46	65.50
Non-working	33.54	34.50
Monthly household income	Э	
Below HKD10000	13.7	23.8
HKD10000–199999	22.7	23.8
HKD20000–299999	22.6	17.6
HKD30000–399999	12.1	11.4
HKD40000 or above	26.2	23.5
Education		
No schooling or	0.499	N/A
kindergarten		
Primary	8.60	N/A
Secondary	48.4	N/A
Tertiary or above	42.5	N/A
HKD7.8 = USD1.		

deceased family member in different hypothetical situations (table 1). These included situations where the wish of the deceased member to donate has been previously communicated to the family, where the wish has been registered without any previous communication with the family, and where the wish is not known.

Before the third part started, we explained to the respondents the key features of the soft version of an opt-out system. Then, we asked the respondents, in the event that an opt-out system was implemented, whether they would be willing to donate their kidneys after death, whether they would plan to discuss their wish with the family, and whether they would opt out as a non-donor. The last part concerned the likelihood that under the proposed opt-out system the respondents would agree to donate the kidneys of a deceased family member in the event that the wish of the deceased member is not known.

Sample data were weighted to adjust for their difference from the general population with regard to age, gender and household income. The weights were developed based on the Hong Kong Population Census 2011 (table 2).

The scenario	Definitely (%)	Likely (%)	Not Likely (%)	Definitely not (%)	Unsure (%)
	, ,	,	, ,		
Wish of the deceased to donate has previo	usly been commu	unicated to the	e family member		
	67.9	26.9	1.58	1.25	2.45
Wish of the deceased to donate has previously NOT been communicated to the family member					
Under the current explicit consent system	,		,		
The deceased is a registered donor	57.4	34.7	3.06	1.95	2.95
The deceased is not a registered donor	21.1	30.1	23.5	13.5	11.9
Under the proposed opt-out system					
The deceased has not opted out	36.5	36.1	12.7	7.91	6.75

RESULTS

A total of 1049 eligible respondents were reached and 802 completed the interview. The response rate was 76.4%. Of the 802 respondents, 61.7% were women, 47.9% were aged less than 45, 90.9% received education beyond primary school. After weighting, the sample had fewer women, younger ages and a lower monthly household income than the original sample. The data that we present below are all weighted. We have excluded 13 respondents from parts 1 and 3 of the survey because they considered themselves medically unfit as a kidney donor.

Under the current explicit consent system, 76.5% (n=606) of respondents would like their family to donate their kidneys after death. Among the respondents, 15.7% (n=124) have registered their wish to donate their kidneys after death; 53.6% (n=325) of those who intend to donate their kidneys after death have already conveyed or plan to convey their wish to their family at the time of the survey.

In the event that a family member has just died from a traffic accident and has previously conveyed to the respondents a wish to donate his/her kidneys after death; 94.7% (n=760) of the respondents said that they would definitely or likely consent to the donation. If there has been no previous communication about the wish of the deceased, but the deceased is a registered donor, 92.0% would consent to the donation. The percentage dropped significantly to 51.2% (OR 0.0912, 95% CI 0.0682 to 0.122) if that deceased family member has neither conveyed a clear wish nor registered as a donor (the wish is unknown).

Under the proposed opt-out system, 75.8% (n=600) of respondents would like their family to donate their kidneys after death. Among those who would be willing to donate their kidneys after death, 69.3% either have already conveyed their wish to the family at the time of the survey or would plan to do so under the proposed system. Only 7.2% (n=56.9) would opt out.

When the wish of the deceased is unknown, 72.6% (n=583) of the respondents said that under the proposed opt-out system, they would definitely or likely consent to donating the kidneys of a deceased family member, significantly more than under the current explicit consent system (OR 2.53, 95% CI 2.06 to 3.11). In the same hypothetical situation, while government

payment of funeral expenses up to HKD50 000 (about US\$6500) would not significantly improve the chance of donation (70.6%, n=566, p value=0.346), provision of free lifelong medical services for four family members of the respondent's family would (77%, n=618, OR 1.26, 95% CI 1.01 to 1.58).

DISCUSSION

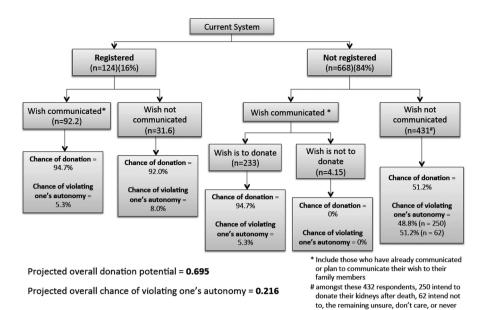
In Hong Kong, a previous survey done in 1996 showed that 60.3% of Hong Kong people were willing to donate their kidneys after death, 85% were willing to donate a family member's organs if the wish of the deceased is known, and 41.1% were willing to do so if the wish of the deceased is not known.⁶ In 1997, only 28% agreed with an opt-out system and 20% would opt out if it was implemented.⁷ In comparison, we found that nowadays a higher percentage of people are willing to donate their own kidneys (76.5%) and would consent to donating the kidneys of a deceased family member (94.7%) when the wish of the deceased is known and 51.2% when the wish of the deceased is not known). We also found a much lower opt-out rate of 7.18% if an opt-out system is implemented. These differences can be accounted for by the change of attitudes, better education, increased awareness of organ shortage and improved publicity about organ donation, over the last decade or so, in Hong Kong. So far, there has been no study in Hong Kong aimed at estimating the impact of an opt-out system on the overall cadaveric kidney donation rate. The purported benefits of an opt-out system for Hong Kong remain speculative and so are the concerns about violating patients' autonomy.

Impact of the proposed opt-out system

We show that the benefits are not mere speculation. Under the current opt-in system, respondents are classified into five categories according to their registration status, their wish and communication with family members (figure 1). Under the proposed opt-out system, respondents are classified into four categories according to their intention to opt out, their wish and communication with family members (figure 2). We project the overall donation potential under the two systems by summation of the chance of donation for each category of

Presumed consent for kidney donation in Hong Kong

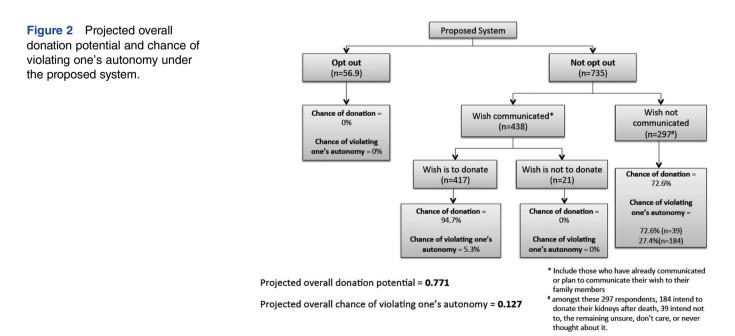
Figure 1 Projected overall donation potential and chance of violating one's autonomy under the current system.



respondents. An opt-out system could significantly improve the overall donation potential from 0.695 $((92.2\times94.7\%+31.6\times92\%+233\times94.7\%+431\times51.2\%)/802)$ to 0.771 $((417\times94.7\%+297\times72.6\%)/802)$ (OR 1.48, 95% CI 1.18 to 1.84). The increase is mainly attributable to a higher chance that people would plan to disclose their wish to the family and that they would consent to donating the kidneys of a family member in case the wish of the deceased is not known. A previous survey in Hong Kong found that people do not talk to the family about the wish to donate mainly because they have not thought about it or because they thought that it was too early to discuss the topic.⁶

The majority of people against an opt-out policy in Hong Kong thought that presuming consent would go against the wish of the deceased.⁷ We have proved it wrong, as an opt-out system would better respect people's right of self-determination rather than devalue it. We project the overall chance of violating one's autonomy under the two systems by summation of the chance of violation for each category of respondents. Our projected chance of violating the autonomy of a potential donor is much reduced from 0.216 ((92.2×5.3%) +31.6×8.0%+233×5.3%+62×51.2%+250×48.8%)/802) to 0.127 $((417 \times 5.3\% + 39 \times 72.6\% + 184 \times 27.4\%)/802)$ (OR 0.530, 95% CI 0.406 to 0.692) by presuming consent. Indeed, one should be reminded that it is as important to protect the rights of those who do not wish to donate as to respect the wishes of those who do. In other words, one's autonomy will be violated if his or her kidneys are donated against his or her wish or if his or her kidneys are not donated when his or her wish is to do so. Having

thought about it



answered the critics' concerns about the impact of an opt-out system on the donation rate and patients' autonomy, we believe that it is time to initiate discussion about implementation of an opt-out policy among the policymakers and the general public in Hong Kong.

Convenience of the registration system paramount

Only 45.5% of those who are willing to donate their kidneys after death know how to register as a kidney donor in Hong Kong and agree that it is convenient to do so. Importantly, those who thought that it was convenient to register were seven times more likely to have registered (OR 10.1, 95% CI 5.96 to 16.9). In order to protect the rights of those who do not wish to donate their kidneys, the opt-out registration system must be not only convenient but also perceived to be convenient. Adequate publicity is indispensable and the authors propose that people could be given additional opportunities to opt out when applying for an identity card, passport or driving licence.

Limitations

The generalisability of our findings to the broader population may be limited by our response rate (76.4%) though it is comparable to that of other surveys (38.8-80.0%) with similar methodology done in Hong Kong.⁸ Since our study was based on self-reported preferences and intentions, we may have underestimated or overestimated the overall donation potential and the overall chance of violating one's autonomy. In particular, when asked whether they would agree to donate the kidneys of a deceased family member under different hypothetical situations, and whether they would disclose to their family their wish to donate their kidneys after death, their ultimate action might be different from their response to our questions. Furthermore, the real chance that one may donate the kidneys of a deceased family member is not easily predictable, because it is usually a familial decision rather than an individual decision especially in the Chinese culture. Future studies would be necessary to verify the impact after actual implementation of the policy.

It is noteworthy that we made three assumptions in our estimation of the overall donation potential and overall chance of violating one's autonomy. To avoid asking respondents two strikingly similar questions, we have assumed that when the wish of the deceased to donate is known, the likelihood that one would consent to donation would be no different under both the systems. Second, due to technical constraints over the survey design, we have assumed that those who have communicated a wish to the family under the current explicit consent system would inform their family should they change their mind under the proposed opt-out system. Nonetheless, only 0.362% of respondents said they would change their mind. We have also assumed that should one's wish not to donate be known, the chance of donation under both systems would be zero. As only 0.126% of respondents have conveyed a wish not to donate their kidneys under the current system, and only 2.65% would do so under the proposed system, even if the chance of donation in this scenario is taken to be $8.9\%^6$ which a previous survey in Hong Kong has found, our estimation would be the same, taking only two significant figures.

CONCLUSIONS

Despite concerns that presumed consent might undermine patients' autonomy, such worry was without support from empirical data. Our projected findings that a switch to an opt-out system would likely result in the wishes of more people being followed and raise the overall cadaveric kidney donation rate should prompt policymakers in Hong Kong to move ahead in the direction of saving people's lives. Over and above an opt-out policy, we should further explore the impact of offering incentives, and ways to improve living donation rate. In light of the reluctance to switch to an opt-out system in the UK⁹ and US,¹⁰ a similar survey in their own populations may be useful with a view to refuting the speculative claim that an opt-out system has the potential to impact negatively on the donation rate and patients' autonomy.

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Contributors TKC, BJC and GLT conceived the idea of the study and were responsible for the design of the study. TKC and BJC were responsible for undertaking for the data analysis and produced the tables and graphs. TKC and GLT provided input into the data analysis. The initial draft of the manuscript was prepared by TKC and then circulated repeatedly among all authors for critical revision. TKC was responsible for the acquisition of the data and TKC, BJC and GLT contributed to the interpretation of the results.

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Competing interests None.

Ethical approval This study was approved by the Institutional Review Board of the University of Hong Kong/Hospital Authority Hong Kong West Cluster.

Provenance and peer review Not commissioned; externally peer reviewed.

Data sharing statement Full results of the survey are available from TKC at theo@hku.hk.

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Kidney Donation Questionnaire

Good evening, is this the residential telephone line _____? I am Mr/Miss _____? I am Mr/Miss _____. The medical school of the University of Hong Kong has appointed us, ANOVA marketing research, to do an opinion survey. The survey is intended to assess the impact of various possible measures with a view to increasing the supply of kidneys from deceased donors to help those who need a transplant. The survey will take only 5 minutes. I would like to express my heartfelt thanks to you on behalf of those with kidney diseases for your precious participation. The information collected will be kept strictly confidential and used for data analysis for this research project only.

To enhance the reliability of the data, I would like to invite the member in your household who lives here 5 days a week and who has the soonest next birthday. Can I speak to him or her please?

- 1. Yes (Can you ask him or her to pick up the phone please, go to Q.1a)
- 2. He/she is not here (I can call again tomorrow. Thank you)
- 3. He/she is not free now (I can call again tomorrow. Thank you)
- 4. He/she refuses to be interviewed (Thanks)

Repeat the following introduction if the one with soonest next birthday is different from the informant.

Good evening, is this the residential telephone line _____? I am Mr/Miss _____? I am Mr/Miss _____. The medical school of the University of Hong Kong has appointed us, ANOVA marketing research, to do an opinion survey. The survey is intended to assess the impact of various possible measures with a view to increasing the supply of kidneys from deceased donors to help those who need a transplant. The survey will take only 5 minutes. I would like to express my heartfelt thanks to you on behalf of those with kidney diseases for your precious participation. The information collected will be kept strictly confidential and used for data analysis for this research project only.

I. Demographic

D1a. Are you a permanent Hong Kong resident?

1. Yes 2. No

D.1 Record/ask the gender.

1. Female 2. Male

D.2 What is your age range?

1. 18-24	2.25-34	3.35-44	4.45-54	5.55-64

D.3 Do you have a part-time/ full-time job now?

1. Yes 2. No

D.4 What is your monthly personal income?

1. < \$10,000 2. \$10,000 - \$19,999 3. \$20,000 - \$29,999 4. \$30,000 - \$39,999 5. > \$40,000

D.5 What is your monthly household income?

D.6 Which district are you living in?

1. Hong Kong Island 2. Kowloon 3. New Territory

<u>Part 1</u>

1. Are you already a registered kidney donor?

1. Yes 2. No

Brain death is an irreversible condition. No brain activities. Inability to breathe on their own. Absence of important reflexes. Certified by two doctors. Legally dead in Hong Kong. Kidneys may be donated to save two other lives. When we mention death in our questions, we mean brain death.

2. Skip if the answer to Q.1 is 1. Would you like your family members to donate your kidneys to save two lives in the event that you die in a road traffic accident?

1. Yes 2. No 3. Unsure 4. I don't care 5. Never thought about it 6. Not able to donate kidneys

- 3. Skip if Q.2 is answered 3/4.
 - a) If the answer to Q1 is yes or Q.2 is answered 1, have you discussed with any of your close relatives **your wish to donate** your kidneys after death?
 - b) If Q.2 is answered 2, have you discussed with any of your close relatives your <u>wish</u> <u>not to donate</u> your kidneys after death?
 - 1. Yes 2. No
- 4. Skip if Q.3 is unanswered or answered 1. Have you already had plans to <u>discuss your wish</u> with your closest relative(s)?
 - 1. Yes 2. No

<u>Part 2</u>

Skip part II if Q.2 is answered 2/3/4.

5. Skip if the answer to Q.1 is 1.

Can you <u>name one method</u> to register in Hong Kong as a kidney donor after death?

1. Correct Answer (register on web/register by post/register by fax/filling out a donor card) 2. Wrong answer

- 3. Don't know
- 6. Skip if Q.5 is answered 2/3
 <u>Do you agree</u> that it is convenient to register as a kidney donor in Hong Kong?
 - 1. Agree2. Agree slightly3. Unsure4. Disagree slightly5. Disagree
- 7. <u>Do you believe</u> that the medical team will try as hard to save you if you register as a donor?
 - 1. Definitely 2. Likely 3. Unsure 4. Not likely 5. Definitely not
- 8. Do you think that your family will **follow your wish** if you register as a donor?

1. Definitely 2. Likely	3. Unsure	4. Not likely	5. Definitely not
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Part 3

- 9. Assume that your closest relative (parents/siblings/spouse/children) has <u>shared with</u> you his/her views about donating his/her kidneys after death. If he or she has made it clear to you that he/she wants to donate the kidneys, <u>would you consent to</u> his or her kidneys being used to save two lives in case he or she dies from a road traffic accident? (Neglect the opinion of all other family members)
 - 1. Definitely 2. likely 3. Unsure 4. Not likely 5. Definitely not
- 10. Assume that your closest relative has registered his/her wish to donate the kidneys. However, <u>he/she has not previously made clear his/her wish to you</u>. In the event that he/she just died after a road traffic accident, <u>would you consent to his or her</u> <u>kidneys</u> being used to save two lives? (Neglect the opinion of all other family members.)
 - 1. Definitely 2. likely 3. Unsure 4. Not likely 5. Definitely not
- 11. Assume that your closest relative has <u>NOT registered</u> his/her wish to donate the kidneys. Furthermore, he/she has <u>not previously made clear his/her wish to you</u>. In the event that he/she just died after a road traffic accident, <u>would you consent to his or her kidneys</u> being used to save two lives?
 - 1. Definitely 2. likely 3. Unsure 4. Not likely 5. Definitely not

<u>Part 4</u>

The government is thinking of a new policy to expand the donor pool in order to ease the shortage of kidney donors and to save more lives. With this new policy, the donor registration system <u>will cease to run</u>. One who wishes to be a donor no longer needs to register as a donor. At the same time, an 'opt out' registration will be introduced. <u>One</u> who does not wish to be a donor has to register the decision to 'opt out'. One who does not opt out will be treated as having consented to donation and the kidneys may be used after death subject to family's consent.

(If Q2 code 6, skip to Q15)

- 12. Assume that presumed consent is now implemented.
 - A. If the answer to Q.1 is 1 or Q.2 is 1. Would you <u>still like</u> your family members to donate your kidneys in the event that you die in a road traffic accident?
 - B. If the answer to Q.2 is 2, would you **<u>change your mind</u>** and like your family members to donate your kidneys in the event that you die in a road traffic accident?
 - C. If the answer to Q.2 is 3/4, would you <u>make up your mind</u> and like your family members to donate your kidneys in the event that you die in a road traffic accident?
 - 1. Yes 2. No 3. Unsure 4. I don't care 5. Don't want to think about it
- 13. Skip if Q.12 is answered 1.

Assume that presumed consent is now implemented in order to help ease the shortage of kidneys and save more lives. If you do not opt out, your kidneys may be used after death subject to family's consent. You may from today on register your decision to 'opt out' in any post office, on the internet, or by filling out a refusal card. Would you 'opt out'?

1. Definitely 2. likely 3. Unsure 4. Not likely 5. Definitely no

14. Skip if Q.3 is answered 1, or the answer to Q.12 is ³/₄. Presumed consent is implemented. There is <u>no more donor registration system.</u> Only an opt out system exists.

- A. If Q.4 is unanswered, would you **plan to disclose** your wish to your closest relative(s)?
- B. If Q.4 is answered 1, would you <u>still plan to disclose</u> your wish to your closest relative(s)?
- C. If Q.4 is answered 2, would you <u>change your mind and plan to disclose</u> your wish to your closest relative(s)?
- 1. Definitely 2. likely 3. Unsure 4. Not likely 5. Definitely not

- 15. Assume that presumed consent **has been implemented for a while**, and your closest relative just died after a road traffic accident. He/she has not previously made clear his/her wish to you. And he or she has NOT opted out. In other words, the law now presumes that he/she has consented to donating the kidneys after death. But the doctor still needs your consent. **Would you consent** to his or her kidneys being used to save two lives?
 - A. 1. Definitely 2. likely 3. Unsure 4. Not likely 5. Definitely not

If (a) is answered 1/2, would you still consent to his or her kidneys being used if

- B. The government rewards you by paying for the funeral expense of your loved one subject to a **maximum of HKD50,000**?
- 1. Definitely 2. likely 3. Unsure 4. Not likely 5. Definitely not
- C. The government rewards any four members of your family free life-long free government medical services and free consultation and basic medications with designated groups of private general practitioners and specialists?
- 1. Definitely 2. likely 3. Unsure 4. Not likely 5. Definitely not

If 15(a) is answered 3/4/5, <u>would you reconsider and consent</u> to his or her kidneys being used if

- D. The government helps you pay for the funeral expense of your loved one subject to a **maximum of HKD50,000**?
- 1. Definitely 2. likely 3. Unsure 4. Not likely 5. Definitely not
- E. The government rewards any four members of your family free life-long free government medical services and free consultation and basic medications with designated groups of private general practitioners and specialists?
- 1. Definitely 2. likely 3. Unsure 4. Not likely 5. Definitely not

VI. Demographics D.7 What is your education level?

- 1. Local Hong Kong Chinese 2. Mainland
- 3. Asian (other than Hong Kong and Mainland China) 4. Europe or America 5. Others

D.8 What is your nationality?

1. Local Hong Kong Chines	e	2. Mainland Chinese	3. Asian(other than Hong
Kong and mainland China)			
4. Europe or America	5.	Others	

D.9 What is your religious belief?

1. Protestant	2. Catholic	3. Muslist	4. Buddhist	5. Taoist
6. Others	7. None			

Please record the language of this questionnaire.

1. Cantonese 2. Mandarin 3. English