## **Supplementary Material: Patient Survey Instrument**



## **Quantifying Treatment Preferences of Elderly Chronic Kidney Disease Patients and their Family Caregivers**

Patient Questionnaire

Time Ended and Total Interview Time after completing the survey.						
PARTICIPANT CODE: (FROM CONSENT FORM)		DATE OF SURVEY (DD/MM/YYYY):				
TIME STARTED:	TIME ENDED:	TOTAL INTERVIE	W TIME:	MIN		
INTERVIEWER NAME:						
SURVEY CONDUCTED IN:	1 English □2 M	ANDARIN □3 MALAY	□4 TAMIL			
INTRODUCTION						

For interviewer: Fill in the spaces that you can at the beginning of the interview, then ente

We are conducting a survey to understand how patients and their family caregivers think about treatments for kidney failure. Even if you do not have kidney failure, we would like to know your opinions as a patient with chronic kidney disease. Your opinions are important to the success of this study. The survey usually takes about 30 minutes.

There are no right or wrong answers and you do not have to answer any questions that make you feel uncomfortable. Information about who you are and your answers will be kept confidential. Only group data will be reported.

# INFORMATION FROM MEDICAL RECORDS

Intervi	iewer: Please record	the participant's info	ormation from patient's me	edical record file
GFR (	Glomerular Filtration	Rate) : ml	/min	
Age as	s of last birthday:			
[Interv	/iewer: Please end in	terview if age is less	than 65 years and GFR >	59.
SECTIO	ON S: SCREENING Q	UESTIONS		
S1	Have you ever bee	n diagnosed with ch	ronic kidney disease?	
	□ 1 Yes	□2 No	□3 Not sure	
	[Interviewer: Pleas	e end interview if the	e answer is not "Yes"]	
S2	Are you currently o	on dialysis?		
	□ 1 Yes	□2 No		
	[Interviewer: Pleas	e end interview if pa	rticipant answers "Yes"]	

### **Abbreviated Mental Test (AMT)**

READ OUT: Before starting the main questionnaire, we would just like to ask you a few questions. These questions are about memory. The questions may seem unusual, but they are routine questions we ask of everyone. Some of the questions are very easy and some are difficult, so do not be surprised if you have trouble with some of them.

Please try to answer these questions correctly and to the best of your knowledge.

Have you attained more than six years of school education?

1 Yes 2 No

Please remember the following phrase: "37 Bukit Timah Road." I will be asking you to repeat the phrase to me later.

Quest	ions	Response	Correct only when:
a.	What is the present year	Correct / Incorrect	Western calendar , i.e. 20
b.	What time is it now?	Correct / Incorrect	Within 1 hour
C.	What is your age?	Correct / Incorrect	For Chinese, +1 yr is usually the norm and hence acceptable. Refer to patient list.
d.	What is your date of birth?	Correct / Incorrect	Western year +/- month and day, refer to the SAC list. Refer to patient list
e.	What is your home address?	Correct / Incorrect	Complete address excluding postal code, refer to patient list
f.	Where are we now?	Correct / Incorrect	For community survey, "my home" or "my son's home" etc. is probably acceptable.
g.	Who is Singapore's present Prime Minister?	Correct / Incorrect	Lee Hsien Loong
h.	Show 'Showcard 1'. What is her occupation?	Correct / Incorrect	Nurse or doctor ok
i.	Now, count backwards from 20 to 1	Correct / Incorrect	
j.	Please recall memory phrase	Correct / Incorrect	

<u>Interviewer:</u> Please total up the number of questions correct. Then see the table below to determine if the respondent has passed the cognitive health section based on his or her age and education status. If they have too many questions wrong, please terminate the interview.

Q	uestions	correct:	

Number of questions needed correct to continue to questionnaire:

60-74 Years Old	75+ years Old

0 to 6 years of education	8 or more correct	6 or more correct
More than 6 years of education	9 or more correct	9 or more correct

[Interviewer: Please end interview if participant fails AMT]

# SECTION A: BACKGROUND QUESTIONS

<b>A</b> 1	Gen	Gender				
	□1	Male	□2	Female		
A2	Whi	ch ethnic group do you b	elong	to?		
	□1	Chinese	□3	Indian		
	□2	Malay	□4	Other (Please specify:)		
<b>A3</b>	Wha	nt is your current marital s	status	?		
	□1	Married	□4	Divorced		
	□2	Separated	□5	Never married		
	□3	Widowed				
<b>A4</b>	Wha	at is your highest education	on lev	el completed?		
	□1	No formal education		□5 Junior college/ Polytechnic/ Diploma		
	□2	Primary		☐6 University and above		
	□3	Secondary		□7 Don't know/ Can't remember		
	□4	Vocational/ ITE				

Illness/Conditions	Yes	No	Not Sure
1. Diabetes			
Cerebrovascular Disease such as stroke			
3. Heart Failure			
4. Heart attack, heart blood vessel narrowed or blocked			
<ol><li>Irregular heartbeat, also called dysrhythmia</li></ol>			
6. Other heart conditions, such as heart valve problems			
7. Chronic Obstructive Pulmonary Disease such as emphysema or chronic bronchitis			
8. Liver Disease			
9. Gastrointestinal Bleeding			
10. Poor circulation or blocked blood vessels			
11. Cancer			

### **SECTION B: KIDNEY FAILURE TREATMENT OPTIONS**

### **Dialysis**

Healthy kidneys remove harmful waste from the blood. Without kidneys, the waste would build up and people would get sicker and eventually die. When kidneys start failing, people may choose to go on dialysis. Dialysis uses a machine to remove some of the waste from the blood so that people can do more of their daily activities and hopefully stay healthy longer.

There are two kinds of dialysis. For blood dialysis (also called haemodialysis), patients need to go to a hospital or a dialysis centre. Water-bag dialysis (also called peritoneal dialysis) can be done at home. Patients on either type of dialysis also have to make changes to their diet, drink less liquid and take medicines.

B1	Have y	ou heard of wate	-bag d	lialysis?		
	□1 Y	es	□2	No	□3	Not sure
D0	Heve w	baawal af blaas	ا ما اما	-:-2		
B2	паve y	ou heard of blood	adaiys	SIS?		
	□1 Y	es	□2	No	□3	Not sure
Non-di	ialysis m	anagement				
patient	uses diet nstead, it	and medicines wi	hout di	alysis. It does not re	move	er non-dialysis management, the waste from the blood as dialysis while the disease runs its natural
<b>D</b> 0						
В3	-	a know that non-o failure?	lialysis	s management is a	lso an	option for patients with
	□1 Y	es	□2	No	□3	Not sure
B4		ou participated ir ney clinic?	a cou	nselling session w	ith a F	Renal Coordinator given at
	□1 Y	es	$\Box 2$	No	$\Box 3$	Not sure

#### **SECTION C: INTRODUCTION TO TREATMENT FEATURES**

In this section we will ask you to think about some features of treatments for <u>kidney failure</u>. Even if you do not have kidney failure, please assume that you have kidney failure when answering the following questions. The treatment features are:

- Type of treatment
- Expected survival with this treatment
- Quality of daily life
- Expected out-of-pocket health care cost per month

#### Type of treatment

Later in this survey, we will ask you to think about three types of treatment for kidney failure:

#### In-centre blood dialysis:

- You would need to go to a dialysis centre 3 times a week and each dialysis treatment will take 4 hours.
- You would receive 2 needle sticks per session (6 needle sticks per week) which can be painful.
- The risk of infection from receiving blood dialysis is very small.

#### • Water-bag dialysis at home:

- You would need to have dialysis every day at home. You can do water-bag dialysis either 4 times throughout the day or for 8 hours at night while you sleep.
- You would have no pain during water-bag dialysis.
- The risk of infection from receiving water-bag dialysis is very small but may be higher for patients with hygiene problems.

#### Non-dialysis management only:

- You would not be using dialysis. Instead, you would take food supplements and medicines, and limit liquids to control your symptoms.
- The symptoms will get worse over time.

C1	•	e to start <i>blood dialysis</i> in the next couple months, what is the most likely vould travel to a dialysis centre?
	□1	Bus and/or MRT
	□2	Taxi
	□3	Private car
	□4	Walking without using any other transportation
	□5	Others, please specify:

	•	be able to help you to go to the		ouple months, how often would sis centre?
	□1	All the time		
	□2	Most of the time		
	□3	Some of the time		
	□4	Never		
C3	[SKIP IF C	C2 = 4] Who would be most lik	•	
	□1	Husband or wife	□5	Maid
	□2	Son or daughter	□6	Friend
	□3	Son-in-law or daughter-in- law	□7	Nurse or other health worker
	□4	Other family member	□8	Others, specify:
C4	If war, w.		4.1	
64	-	re to start <i>water-bag dialysis</i> i be able to help you to have d		xt couple months, how often would thome?
04	-			
	someone	be able to help you to have d		
04	someone □1	be able to help you to have di All the time		
04	someone □1 □2	be able to help you to have do All the time  Most of the time		
	someone  □1  □2  □3	be able to help you to have di All the time Most of the time Some of the time		
C5	someone  □1  □2  □3  □4	be able to help you to have di All the time Most of the time Some of the time Never	ialysis a	
	someone  □1  □2  □3  □4  [SKIP IF (	be able to help you to have di All the time Most of the time Some of the time Never	ialysis a	t home?
	someone  1  2  3  4  [SKIP IF Chome?	be able to help you to have di All the time Most of the time Some of the time Never	ely to he	elp you with water-bag dialysis at
	someone  □1  □2  □3  □4  [SKIP IF (home?)	be able to help you to have di All the time Most of the time Some of the time Never  C4 = 4] Who would be most like Husband or wife	ely to he	elp you with water-bag dialysis at  Maid

Expec	ted s	survival
	e wo	survey, we will ask you to think about how long older adults live with kidney failure. uld like to get your opinion on an imaginary patient's survival under different ces.
proble	ems a	is years old and has kidney failure. He/She has similar other health as you do. He/She can choose either dialysis or non-dialysis management to treat oms from kidney failure.
C6		nat is your best guess as to how many more years someone like Mr/Ms Law will e using
		i. Dialysis?
		years
		ii. Non-dialysis management only (no switching to dialysis)?
		years
<b>C7</b>		K IF ANY C6 = Don't know] Under which treatment do you think Mr/Ms Law would e a longer life?
	□1	Dialysis
	□2	Non-dialysis management only
	□3	Not sure/ Don't know
C8		til what age do you think a person who is your age and gender <u>without chronic</u> <u>dney disease</u> is likely to live (please provide your best guess)?
		years old
	lot su	ire/ Don't know

Quality	/ of	daily	life
~ aaiit		Maiiy	

Later in the survey, we will ask you to think about the quality of daily life using the following definitions:

- Poor: It is not possible for you to do activities that are important to you.
- Fair: You can do some activities that are important to you.
- Good: You can do most activities that are important to you.
- Very Good: You can do all of the activities that are important to you.

C9	Over the past month, how would you rate your quality of daily life based on the definitions above?		
	□1	Poor	
	□2	Fair	
	□3	Good	
	□4	Very good	
C10		ou think your quality of daily life would be like if you had kidney disease ere using	
	i. Bloc	od dialysis?	
	□1	Poor	
	□2	. Fair	
	□3	Good Good	
	□4	Very good	
	□5	Not sure/ Don't know	
	ii. Wat	ter-bag dialysis?	
	□1	Poor	
	□2	Pair Pair	
	□3	Good Good	
	□4	Very good	
	□5	Not sure/ Don't know	
	iii. No	n-dialysis management only?	
	□1	Poor	
	□2	Pair Pair	
	□3	Good Good	
	□4	Very good	
	□5	Not sure/ Don't know	

C11	[ASK IF A of daily lif	ANY C10 = Don't know] Which treatment do you tife?	think offers the best quality
	□1	Water-bag dialysis at home	
	□2	In-centre blood dialysis	
	□3	Any form of dialysis	
	□4	Non-dialysis management only	
	□5	They are all about the same	
	□6	Don't know	
-	of pocket cos	f-pocket medical cost per month sts refer to the total amount you or your family have ctions from MediSave account (personal or family)	to pay for all medical costs
	<ul> <li>Claims</li> </ul>	s from MediShield and any other health insurance subsidies (e.g. Medifund, National Kidney Foundati	on)
		ey, we will ask you to think about out-of-pocket cosblems, including kidney failure.	ts in a typical month for all
C12		ald like you to indicate what you think your out problems will be in a typical month if you had k	
	i. BI	lood dialysis?	
		\$	☐ Not sure/ Don't know
	ii. W	Vater-bag dialysis?	
		\$	☐ Not sure/ Don't know
	iiii. I	Non-dialysis management only?	
		<b>\$</b>	☐ Not sure/ Don't know
C13		ANY C12 = Don't know] Under which treatment donut-of-pocket cost for all your health problems in	
		Water-bag dialysis at home	
	□2	In-centre blood dialysis	
		•	
	□3	Non-dialysis management only	

Dagtar's	Recommen	
DOCTOR S	Recommen	idation

Doctors may recommend a particular treatment for kidney failure. The recommendation might or might not be based on the same concerns you and your family have about your health and health care.

C14	When making decisions about your health and health care, who usually makes the final decisions?			
	<u>ma</u>	Me only	□5	Me and my doctor only
	□2	My family only	□6	My family and my doctor only
	□3	My doctor only	□7	Me, my family and my doctor
	□4	Me and my family only	□8	Other. Please specify:
C15		en making decisions abou final decisions?	ıt your health	and health care, who do you want to make
	□1	Me only	□5	Me and my doctor only
	□2	My family only	□6	My family and my doctor only
	□3	My doctor only	□7	Me, my family and my doctor
	□4	Me and my family only	□8	Other. Please specify:
C16		ere is a disagreement abo think will be most import		f chronic kidney disease, <u>whose opinion do</u> ng what to do?
	<u>7</u> 1	My own		<b>3</b>
	□2	My family's		
	□3	My doctor's		
SECTIO	ON D:	WHICH SCENARIO WILL	YOU CHOOS	E?
				ole treatments for kidney failure. Even if you do have kidney failure when answering these

questions. Please tell us which treatment you would choose if these were the only options available for you. Assume that once you make a decision it is final; you cannot change your mind later.

Please think carefully about your choice. Your answers will help increase our understanding of tradeoffs that patients make when faced with decisions about treatment for kidney failure.

Please think about whether you and your family can afford paying the cost of the treatment before making your choice.

There are no right or wrong answers.

#### **EXAMPLE QUESTION**

If these were the only treatment options, which one would you choose?			
	Profile A	Profile B	
Type of treatment	In-centre blood dialysis (3 times a week)	Non-dialysis management	
Expected survival	6 years	3 years	
Quality of daily life	Fair	Fair	
Expected out-of pocket cost per month	S\$ 2,500 per month	S\$ 450 per month	

If you choose **Treatment A**, you would have dialysis at a centre 3 times a week, and each dialysis treatment will take 4 hours. The expected survival would be 6 years and you would have a fair quality of daily life. Expected costs would be S\$2,500 per month for all your health care costs.

If you choose **Treatment B**, you would receive supplements and medication to manage your symptoms. The expected survival would be 3 years and you would have a fair quality of daily life. Expected costs would be S\$450 per month for all your health care costs.

You do not need to provide an answer for this question. This is just an example.

D1. If these were the only treatment options, which one would you choose?			
	Profile A	Profile B	
Type of treatment	In-centre blood dialysis (3 times a week)	Non-dialysis management	
Expected survival	3 years	3 years	
Quality of daily life	Good	Good	
Expected out-of pocket cost per month	\$1,500	\$1,000	
If these were the only options, which would you choose?	0	0	

D2. If these were the only	treatment options, which	ch one would you choose?
	Profile A	Profile B
Type of treatment	In-centre blood dialysis (3 times a week)	Non-dialysis management
Expected survival	10 years	1 year
Quality of daily life	Very good	Very good
Expected out-of pocket cost per month	\$700	\$500
If these were the only options, which would you choose?	0	0

D3. If these were the only treatment options, which one would you choose?			
	Profile A	Profile B	
Type of treatment	Water bag dialysis at home  (Every day or night)	Non-dialysis management	
Expected survival	3 years	1 year	
Quality of daily life	Poor	Good	
Expected out-of pocket cost per month	\$3,000	\$250	
If these were the only options, which would you choose?	0	0	

D4. If these were the only treatment options, which one would you choos		
	Profile A	Profile B
Type of treatment	In-centre blood dialysis	Water bag dialysis at home
	(3 times a week)	(Every day or night)
Expected survival	1 years	10 years
Quality of daily life	Very good	Poor
Expected out-of pocket cost per month	\$1,500	\$700
If these were the only ptions, which would you choose?	0	О

D5. If these were the only treatment options, which one would you choose?			
	Profile A	Profile B	
Type of treatment	Water bag dialysis at home  (Every day or night)	Non-dialysis management	
Expected survival	6 years	1 year	
Quality of daily life	Poor	Fair	
Expected out-of pocket cost per month	\$7,000	\$500	
If these were the only options, which would you choose?	0	0	

D6. If these were the only treatment options, which one would you choose?			
	Profile A	Profile B	
Type of treatment	Water bag dialysis at home  (Every day or night)	Non-dialysis management	
Expected survival	6 years	3 years	
Quality of daily life	Fair	Poor	
Expected out-of pocket cost per month	\$3,000	\$2,000	
If these were the only options, which would you choose?	О	0	

D7. If these were the only treatment options, which one would you choose?							
	Profile A	Profile B					
Type of treatment	In-centre blood dialysis (3 times a week)	Non-dialysis management					
Expected survival	1 year	3 years					
Quality of daily life	Very good	Good					
Expected out-of pocket cost per month	\$1,500	\$1,000					
If these were the only options, which would you choose?	0	0					

D8. If these were the only treatment options, which one would you choose?							
	Profile A	Profile B					
Type of treatment	Water bag dialysis at home  (Every day or night)	Non-dialysis management					
Expected survival	10 years	3 years					
Quality of daily life	Poor	Good					
Expected out-of pocket cost per month	\$700	\$1,000					
If these were the only options, which would you choose?	0	0					

D9. If these were the only	treatment options, which	ch one would you choose?			
	Profile A	Profile B			
Type of treatment	In-centre blood dialysis (3 times a week)	Non-dialysis management			
Expected survival	3 years	1 year			
Quality of daily life	Fair	Fair			
Expected out-of pocket cost per month	\$3,000	\$250			
If these were the only options, which would you choose?	О	0			
	recommended and take the doctor recomm	nd if you could afford this nended treatment?			

Probably would not

Definitely would not

□3 □4

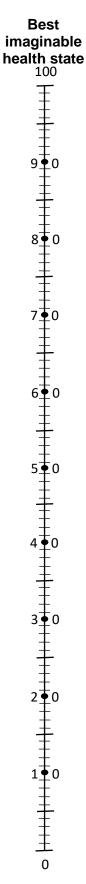
# SECTION E: CURRENT HEALTH STATUS

E1		placing a tick in one box $[\checkmark]$ in each group below, please indicate which statements best scribe your own health state today.							
	i.	Mobility							
		1 I have no problems in walking about							
		1 have some problems in walking about							
		3 I am confined to bed							
	ii.	Self-Care							
		1 I have no problems with self-care							
		2 I have some problems washing or dressing myself							
		3 I am unable to wash or dress myself							
	iii.	Usual Activities (e.g. work, study, housework, family or leisure activities)							
		☐ 1 I have no problems with performing my usual activities							
		<ul><li>2 I have some problems with performing my usual activities</li></ul>							
		☐ 3 I am unable to perform my usual activities							
	iv.	Pain/Discomfort							
		1 I have no pain or discomfort							
		2 I have moderate pain or discomfort							
		3 I have extreme pain or discomfort							
	٧.	Anxiety/Depression							
		1 I am not anxious or depressed							
		2 I am moderately anxious or depressed							
		3 I am extremely anxious or depressed							

E2 To help people say how good or bad a health state is, we have drawn a scale (rather like a thermometer) on which the best state you can imagine is marked 100 and the worst state you can imagine is marked 0.

We would like you to indicate on this scale how good or bad your own health is today, in your opinion. Please do this by drawing a line from the BLACK BOX below to whichever point on the scale indicates how good or bad your health state is today.

> Your own health state today



Worst imaginable health state

# SECTION F: ADDITIONAL BACKGROUND QUESTIONS

F1	Wha	What is your CURRENT employment situation:						
	□1	Paid full-time	□6	Retired due to health problems				
	□2	Paid part-time	□7	Retired – non-health reasons				
	□3	Self-employed	□8	Unemployed, looking for work				
	□4	Homemaker	□9	Unempl	oyed, not looking for work			
	□5	Volunteer						
F2	Wha	at type of housi	ng are you livin	g in?				
	□1	HDB/ JTC flat (	(1-2 room)	□5	Condominium/ Private flat			
	□2	HDB/ JTC flat (	(3 room)	□6	Bungalow/ semi-detached/ terrace house			
	□3	HDB/ JTC flat (	(4 room)	□7	Shophouse			
	□4	HDB/ JTC flat	(5 room and ab	ove/ □8	Others, specify			
		HUDC/ Executi	•		, i , ,			
F3	How	many persons l	ive in your hou	sehold?				
					usehold presently, as well as those who			
					ing tenants. e.g. including yourself, maid Iren who are living in a hostel within			
			•		rently in National Service/ Reservist			
	•	ng, etc.]		mo are car	remaj miritalienai eervieer rieserviet			
		Number of persons						
			] -					
F4	How	many persons i	n vour househ	old earn in	come?			
• •		r <b>viewer</b> : Exclude	•		oome.			
	_		·	-				
			Number of pe	rsons				
F5	Wha	nt is your religio	n?					
	□1	Christian	□6	Sikh				
	□1	Buddhist	□7		pecify:			
	□3	Taoist	□8	No religi	•			
	□3 □4	Muslim	□9	Free thin				
	□ <del>4</del>	Hindu	□9	i ice uilli				
		i illiuu						

F6		[SKIP IF F5 = 8 or 9] At a time of suffering and distress, to what extent do you find strength and comfort from your religion?								
	□1	None			□3	Some				
	□2	2 A little			□4	A great deal				
COTI		DEOUECT	MOTI	VEC						
SECTI	ON G:	BEQUEST	MOTI	VES						
GI.		w importar ce you pas		for you to le	eave	money and/o	proper	ty to you	family o	r to charity
	□1	l Essentia	ıl, I can	not imagine	not l	eaving anythin	ng after	l am gone		
		2 Highly d	esirabl	e, I will try m	ny be	st and will be o	disappoi	nted if I'm	unable to	
ı				•		e disappointed	if I'm u	nable to.		
		Not impo	ortant a	at all, it does	not i	matter to me.				
ECTI	ON H:	PERSONA	L VAL	UES AND E	3ELII	EFS				
H1	Ple	ease state h	now str	ongly you a	gree	or disagree wit	h the fo	llowing sta	tements:	
i.	I pref	er tradition	nal me	dicine inste	ead o	f western me	dicine.			
	□1	Strongly disagree	□2	Disagree		3 Not sure	□4	Agree	□5	Strongly agree
ii.	I can	not change	my fa	ite so there	is n	o point to hav	e dialys	sis.		
	□1	Strongly disagree	□2	Disagree		Not sure	□4	Agree	□5	Strongly agree
iii.	If I do	If I do not have dialysis in this life, I may suffer the same problem in the next life.								
	□1	Strongly disagree	□2	Disagree		Not sure	□4	Agree	□5	Strongly agree
iv.	I fear	that I will I	be a b	urden to my	y fam	ily if I have di	ialysis r	egularly.		
	□1	Strongly disagree	□2	Disagree		Not sure	□4	Agree	□5	Strongly agree
V.	It is p	oossible fo	r me to	be healthy	y witl	nout dialysis.				
	□1	Strongly disagree	□2	Disagree		Not sure	□4	Agree	□5	Strongly agree

F6