

# BC Renal Care Team Members' Perceptions of Home Dialysis Therapies Survey

## 1. Section 1 of 6: Demographic Information

### 1. Which health authority do you work in?

1. Vancouver Coastal Health Authority
2. Providence Health Care
3. Island Health Authority
4. Fraser Health Authority
5. Interior Health Authority
6. Northern Health Authority

### 2. What is your role in your renal program?

1. Nephrologist
2. Nurse
3. Pharmacist
4. Social Worker
5. Dietitian
6. Other

### 3. Please indicate the primary area where you work:

1. CKD/Kidney Care Clinic (KCC)
2. In-Centre Hemodialysis Unit
3. Community Dialysis Unit (CDU)
4. Peritoneal Dialysis Clinic (PD)
5. Home Hemodialysis Clinic (HHD)

### 4. Which type(s) of dialysis do you feel you know the least about? You may select more than one option.

1. Home hemodialysis
2. Peritoneal dialysis
3. In-centre hemodialysis
4. Self-care hemodialysis (dialysis in a health care setting with minimal nursing support)
5. I am well informed about ALL dialysis modalities

### 5. What type of dialysis centre do you work in?

1. Academic Centre (affiliated with a teaching hospital)
2. Non-Academic Centre

P2: Section 1 of 6: Demographic Information

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## 2. Section 1 of 6: Demographic Information

### 6. What is your gender?

1. Female
2. Male

### 7. What is your current age?

1. Less than 31 years
2. 31-40 years
3. 41-50 years
4. 51-60 years
5. Older than 60 years

### 8. How many years have you been working as a renal care team member?

1. Less than 1 year
2. 1-5 years
3. 6-10 years
4. 11-15 years
5. 16-20 years
6. More than 20 years

### 9. Where did you initially learn nephrology?

1. Canada
2. United States
3. Europe
4. Other

### 10. What is your level of education?

1. Some college credit, no degree
2. Trade/technical/vocational training
3. Associate degree
4. Bachelor's degree
5. Master's degree
6. Professional degree
7. Doctorate degree

### 11. Do you have your CNA Certification in Nephrology Nursing (C Neph (C))?

1. Yes
2. No
3. Not applicable (not a nurse)

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P3: Section 2 of 6: Choosing the Type of Dialysis

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## 3. Section 2 of 6: Choosing the Type of Dialysis

12. Who do you believe has the most impact on a patient's choice of dialysis modality?

Please drag or rank each option in order from MOST (1) to LEAST (5).

Nephrologist

Dialysis Nurse

Pre-Dialysis Nurse/educator

Patient him/herself

Family or caregiver

13. If you required renal replacement therapy, which dialysis modality would you choose?

In-centre hemodialysis

Home hemodialysis

Peritoneal dialysis

Self-care hemodialysis (dialysis in a health care setting with minimal nursing support)

None

P4: Section 3 of 6: Benefits of Dialysis Location

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### 4. Section 3 of 6: Benefits of Dialysis Location

14. Please indicate if you prefer home dialysis (HD or PD) or in-centre hemodialysis for patients with the following:

	In-centre hemodialysis is strongly preferred	In-centre hemodialysis is somewhat preferred	Neither in-centre or home dialysis are preferred	Home dialysis is somewhat preferred	Home dialysis is strongly preferred
Poor socioeconomic status	Poor socioeconomic status In-centre hemodialysis is strongly preferred	Poor socioeconomic status In-centre hemodialysis is somewhat preferred	Poor socioeconomic status Neither in-centre or home dialysis are preferred	Poor socioeconomic status Home dialysis is somewhat preferred	Poor socioeconomic status Home dialysis is strongly preferred
Multiple chronic illnesses	Multiple chronic illnesses In-centre hemodialysis is strongly preferred	Multiple chronic illnesses In-centre hemodialysis is somewhat preferred	Multiple chronic illnesses Neither in-centre or home dialysis are preferred	Multiple chronic illnesses Home dialysis is somewhat preferred	Multiple chronic illnesses Home dialysis is strongly preferred

	<b>In-centre hemodialysis is strongly preferred</b>	<b>In-centre hemodialysis is somewhat preferred</b>	<b>Neither in-centre or home dialysis are preferred</b>	<b>Home dialysis is somewhat preferred</b>	<b>Home dialysis is strongly preferred</b>
No education after high school	No education after high school In- centre hemodialysis is strongly preferred	No education after high school In- centre hemodialysis is somewhat preferred	No education after high school Neither in-centre or home dialysis are preferred	No education after high school Home dialysis is somewhat preferred	No education after high school Home dialysis is strongly preferred
Age greater than 70 years	Age greater than 70 years In-centre hemodialysis is strongly preferred	Age greater than 70 years In-centre hemodialysis is somewhat preferred	Age greater than 70 years Neither in-centre or home dialysis are preferred	Age greater than 70 years Home dialysis is somewhat preferred	Age greater than 70 years Home dialysis is strongly preferred
English not primary language	English not primary language In- centre hemodialysis is strongly preferred	English not primary language In- centre hemodialysis is somewhat preferred	English not primary language Neither in-centre or home dialysis are preferred	English not primary language Home dialysis is somewhat preferred	English not primary language Home dialysis is strongly preferred
Working or studying part- time or full- time	Working or studying part- time or full- time In-centre hemodialysis is strongly preferred	Working or studying part- time or full- time In-centre hemodialysis is somewhat preferred	Working or studying part- time or full- time Neither in- centre or home dialysis are preferred	Working or studying part- time or full- time Home dialysis is somewhat preferred	Working or studying part- time or full- time Home dialysis is strongly preferred
No patient caregivers or social supports	No patient caregivers or social supports In- centre hemodialysis is strongly preferred	No patient caregivers or social supports In- centre hemodialysis is somewhat preferred	No patient caregivers or social supports Neither in-centre or home dialysis are preferred	No patient caregivers or social supports Home dialysis is somewhat preferred	No patient caregivers or social supports Home dialysis is strongly preferred

P5: Section 4 of 6: Benefits of Dialysis Location

## 5. Section 4 of 6: Benefits of Dialysis Location

15. Please indicate if you prefer home dialysis (HD or PD) or in-centre hemodialysis for the following:

	In-centre hemodialysis strongly preferred	In-centre hemodialysis somewhat preferred	Neither in-centre or home dialysis preferred	Home dialysis somewhat preferred	Home dialysis strongly preferred
Lower cost to patients	Lower cost to patients In-centre hemodialysis strongly preferred	Lower cost to patients In-centre hemodialysis somewhat preferred	Lower cost to patients Neither in-centre or home dialysis preferred	Lower cost to patients Home dialysis somewhat preferred	Lower cost to patients Home dialysis strongly preferred
Lower cost to the healthcare system	Lower cost to the healthcare system In-centre hemodialysis strongly preferred	Lower cost to the healthcare system In-centre hemodialysis somewhat preferred	Lower cost to the healthcare system Neither in-centre or home dialysis preferred	Lower cost to the healthcare system Home dialysis somewhat preferred	Lower cost to the healthcare system Home dialysis strongly preferred
Lower risk of catastrophic events to patients	Lower risk of catastrophic events to patients In-centre hemodialysis strongly preferred	Lower risk of catastrophic events to patients In-centre hemodialysis somewhat preferred	Lower risk of catastrophic events to patients Neither in-centre or home dialysis preferred	Lower risk of catastrophic events to patients Home dialysis somewhat preferred	Lower risk of catastrophic events to patients Home dialysis strongly preferred
Employment and job security for current dialysis nurses	Employment and job security for current dialysis nurses In-centre hemodialysis strongly preferred	Employment and job security for current dialysis nurses In-centre hemodialysis somewhat preferred	Employment and job security for current dialysis nurses Neither in-centre or home dialysis preferred	Employment and job security for current dialysis nurses Home dialysis somewhat preferred	Employment and job security for current dialysis nurses Home dialysis strongly preferred
Better patient survival	Better patient survival In-centre hemodialysis strongly preferred	Better patient survival In-centre hemodialysis somewhat preferred	Better patient survival Neither in-centre or home dialysis preferred	Better patient survival Home dialysis somewhat preferred	Better patient survival Home dialysis strongly preferred
Better patient quality of life	Better patient quality of life In-centre hemodialysis strongly preferred	Better patient quality of life In-centre hemodialysis somewhat preferred	Better patient quality of life Neither in-centre or home dialysis preferred	Better patient quality of life Home dialysis somewhat preferred	Better patient quality of life Home dialysis strongly preferred

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6. Section 5 of 6: Dialysis Modality Mix

16. Please indicate your best guess as to the CURRENT proportion of patients that receive each dialysis modality in your centre. Please make sure the total adds up to 100.

1. In-centre hemodialysis %
2. Peritoneal dialysis %
3. Home hemodialysis %
4. Self-care hemodialysis % (dialysis in a health care setting with minimal nursing support)

17. Please indicate the IDEAL proportion of patients you believe should receive each dialysis modality in your centre. Please make sure the total adds up to 100.

1. In-centre hemodialysis %
2. Peritoneal dialysis %
3. Home hemodialysis %
4. Self-care hemodialysis % (dialysis in a health care setting with minimal nursing support)

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7. Section 6 of 6: Education

18. For each of the following statements about dialysis modalities, place a check mark in the one box that best describes your answer.

	Strongly Disagree	Disagree	Neither agree or disagree	Agree	Strongly agree
a. Patients are well informed of all modalities once they start dialysis therapy	a. Patients are well informed of all modalities once they start dialysis therapy Strongly Disagree	a. Patients are well informed of all modalities once they start dialysis therapy Disagree	a. Patients are well informed of all modalities once they start dialysis therapy Neither agree or disagree	a. Patients are well informed of all modalities once they start dialysis therapy Agree	a. Patients are well informed of all modalities once they start dialysis therapy Strongly agree

	Strongly Disagree	Disagree	Neither agree or disagree	Agree	Strongly agree
b. Patients would benefit from further modality education after they start dialysis therapy	b. Patients would benefit from further modality education after they start dialysis therapy Strongly Disagree	b. Patients would benefit from further modality education after they start dialysis therapy Disagree	b. Patients would benefit from further modality education after they start dialysis therapy Neither agree or disagree	b. Patients would benefit from further modality education after they start dialysis therapy Agree	b. Patients would benefit from further modality education after they start dialysis therapy Strongly agree
c. I am well informed of all modalities	c. I am well informed of all modalities Strongly Disagree	c. I am well informed of all modalities Disagree	c. I am well informed of all modalities Neither agree or disagree	c. I am well informed of all modalities Agree	c. I am well informed of all modalities Strongly agree
d. I educate patients about dialysis modalities	d. I educate patients about dialysis modalities Strongly Disagree	d. I educate patients about dialysis modalities Disagree	d. I educate patients about dialysis modalities Neither agree or disagree	d. I educate patients about dialysis modalities Agree	d. I educate patients about dialysis modalities Strongly agree
e. I would benefit from further education about dialysis modalities	e. I would benefit from further education about dialysis modalities Strongly Disagree	e. I would benefit from further education about dialysis modalities Disagree	e. I would benefit from further education about dialysis modalities Neither agree or disagree	e. I would benefit from further education about dialysis modalities Agree	e. I would benefit from further education about dialysis modalities Strongly agree

## 19. Which would be the best way(s) to further educate you about dialysis modalities?

You may select more than one option.

Instructional video  
 Online continuing education  
 Pamphlet  
 Practical continuing education/in-services  
 Journal article  
 Conference talk  
 Rotation on other nephrology modality  
 I don't need/want modality education

20. Any other comments that you wish to share about Home Dialysis Therapies?



Appendix 2. Likelihood of respondents favoring a home-based therapy (“strongly agree” or “agree” versus not) given specific patient-related factors. Results are expressed as odds ratios with associated 95% confidence intervals from a logistic regression model.

<b>Respondent</b>	<b>Odds ratio</b>	<b>95% CI</b>	<b>p-value</b>
<b>Lower socioeconomic status</b>			
In-center HD nurse	Reference	Reference	
Nephrologist	3.27	1.23 – 8.66	0.02
Home dialysis nurse	9.14	4.47 – 18.71	<0.001
CKD nurse	7.30	2.68 – 19.89	<0.001
Allied health staff	2.21	1.13 – 4.32	0.02
<b>Multiple comorbidities</b>			
In-center HD nurse	Reference	Reference	
Nephrologist	4.29	1.67 – 11.05	0.003
Home dialysis nurse	5.34	2.68 – 10.64	<0.001
CKD nurse	4.25	1.59 – 11.39	0.004
Allied health staff	1.45	0.72 – 2.89	0.29
<b>Lower educational level</b>			
In-center HD nurse	Reference	Reference	
Nephrologist	2.39	0.96 – 5.98	0.06
Home dialysis nurse	6.70	3.23 – 13.89	<0.001
CKD nurse	2.72	1.01 – 7.28	0.05
Allied health staff	1.04	0.57 – 1.90	0.9
<b>Older age (&gt;70 years)</b>			
In-center HD nurse	Reference	Reference	
Nephrologist	4.34	1.70 – 11.07	0.002
Home dialysis nurse	5.94	2.97 – 11.86	<0.001
CKD nurse	6.51	2.29 – 18.49	<0.001
Allied health staff	1.45	0.78 – 2.72	0.24
<b>Language barrier</b>			
In-center HD nurse	Reference	Reference	
Nephrologist	1.94	0.78 – 4.85	0.16
Home dialysis nurse	5.33	2.65 – 10.74	<0.001
CKD nurse	3.65	1.36 – 9.81	0.01
Allied health staff	0.89	0.48 – 1.64	0.71
<b>Lack of social support</b>			
In-center HD nurse	Reference	Reference	
Nephrologist	2.62	0.92 – 7.46	0.07
Home dialysis nurse	8.03	3.91 – 16.50	<0.001
CKD nurse	5.89	2.15 – 16.11	0.001
Allied health staff	2.01	0.98 – 4.13	0.06

Appendix 3. Likelihood of respondents favoring a home-based therapy (“strongly agree” or “agree” versus not) given specific system-related factors. Results are expressed as odds ratios with associated 95% confidence intervals from a logistic regression model.

<b>Respondent</b>	<b>Odds ratio</b>	<b>95% CI</b>	<b>p-value</b>
<b>Cost to patients</b>			
In-center HD nurse	Reference	Reference	
Nephrologist	1.34	0.53 – 3.40	0.54
Home dialysis nurse	2.28	1.13 – 4.61	0.02
CKD nurse	1.29	0.48 – 3.50	0.61
Allied health staff	1.08	0.61 – 1.91	0.8
<b>Risk of a harmful event</b>			
In-center HD nurse	Reference	Reference	
Nephrologist	2.26	0.90 – 5.68	0.08
Home dialysis nurse	6.22	3.07 – 12.61	<0.001
CKD nurse	5.39	1.94 – 15.03	0.001
Allied health staff	0.85	0.44 – 1.61	0.61
<b>Job security</b>			
In-center HD nurse	Reference	Reference	
Nephrologist	0.97	0.21 – 4.54	0.97
Home dialysis nurse	6.34	2.94 – 13.67	<0.001
CKD nurse	3.06	0.88 – 10.62	0.08
Allied health staff	0.28	0.06 – 1.27	0.1
<b>Patient survival</b>			
In-center HD nurse	Reference	Reference	
Nephrologist	2.40	0.92 – 6.25	0.07
Home dialysis nurse	6.15	2.72 – 13.92	<0.001
CKD nurse	4.50	1.43 – 14.14	0.01
Allied health staff	2.02	1.13 – 3.61	0.02