

Digital Advance Care Planning for dialysis patients

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What is Advance care planning (ACP)?



ACP is one of the most discussed interventions to promote EOL conversations.



It enables understanding and sharing of values, goals, and preferences regarding current and future medical care.



Goal of ACP is to Educate-Share-Prepare

Objectives for ACP

Educate- Share-Prepare

1) Illness education

- Most patients do not understand enough about their illness and prognosis

2) Elicitation of values and goals to guide current decisions

- This allows them to engage in shared decision making. As goals change, ACP conversations need to be a continuous process

3) Prepare for future end-of-life decisions

'Preparation' rather than 'planning' is an objective

Public perspective: Uptake of ACP is low

e.g. Singapore: Lack of readiness to engage in ACP among general public.

	Positive attitude (n=262)
Ready to sign official papers putting your wishes in writing about the kind of medical care you would want if you were near the end of life	9.9%
Ready to speak with your Healthcare Professional about the kind of medical care you would want if you were near the end of life	8.8%
Ready to speak with your Nominated Healthcare Spokesperson about the kind of medical care you would want if you were near the end of life	11.1%
Ready to sign official papers naming a person or group of people to be your spokesperson or to make decisions for you	15.3%

Provider perspective: ACP conversations and documentations are time consuming and complex

- Conversations and documentations are time consuming
- Most conversations required multiple sessions, each taking an hour or more
- Procuring multiple signatures time-consuming
- Many ACP conversations are never documented or uploaded on the IT system

ACP is very tedious. I think if it was less tedious more people will come onboard. ... And in terms of documentation, if you want to do more in depth documentation it takes also almost an hour. So, the whole process is pretty tedious and it puts people off doing ACP. .. FGD10-2

Lack of physician engagement

- Lack of dedicated time for ACP conversations, compounded by length of conversations and documentations
- Not consulting ACP documents when making treatment decisions

In my normal clinic, I won't want to actually bring up ACP, because once you start the conversation, you should continue... and you cannot do it in your ordinary day. You will never be able to wrap up the conversation in a nice way. There is no time. You have so many things to deal with, in your normal clinic, you cannot deal with another factor. It's like you throw another thing in the plate and you don't have the time. It's very difficult. FGD1B-1

Policy perspective: High interest in ACP

- Reduce use of low-value care
- Reduce acute care use at EOL
- Reduce healthcare costs at the EOL
- Support dying at home

Shift from

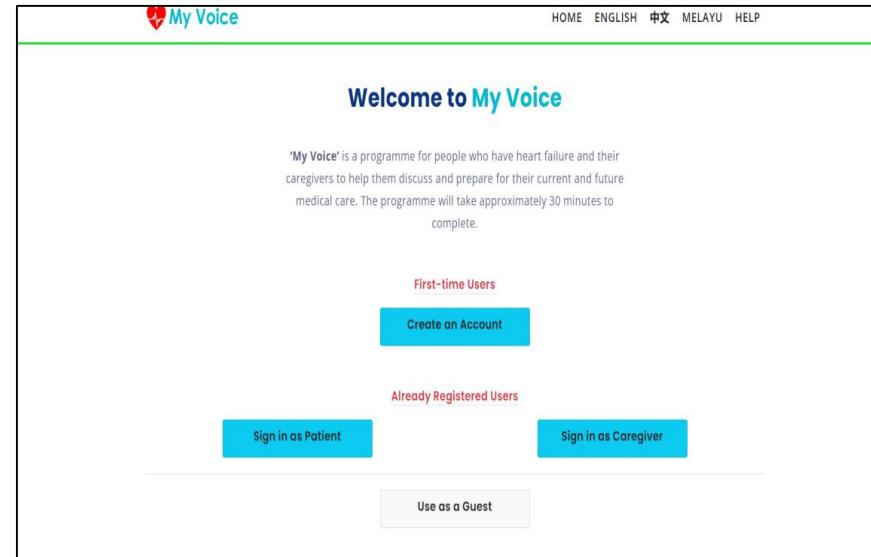
Complex forms
and process

Simple interactive
website that makes
ACP easily accessible
and easy to update

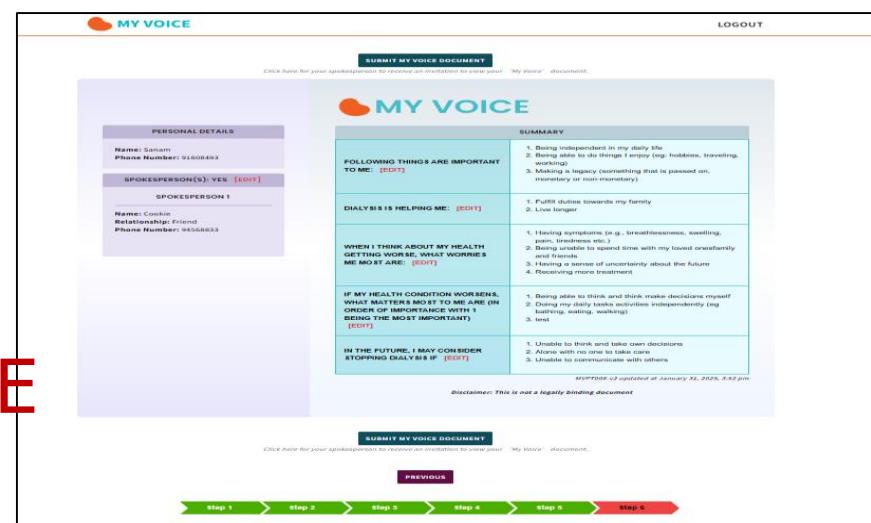
Planning

Preparedness for
in-the-moment
decision making

Goal is to EDUCATE-SHARE-PREPARE



My Voice-Heart



My Voice-Renal

'My Voice' Renal website



HOME ENGLISH 中文 MELAYU CONTACT US

Welcome to My Voice

'My Voice' is a website for patients with kidney failure on dialysis and their family caregivers. The website presents information and is designed to prepare patients and caregivers for future medical care decisions.

First-time Users 

[Create an Account](#)

Already Registered Users

[Sign in as Patient](#)

[Sign in as Caregiver](#)

[Sign in as Healthcare Professional](#)

Development and Evaluation Process

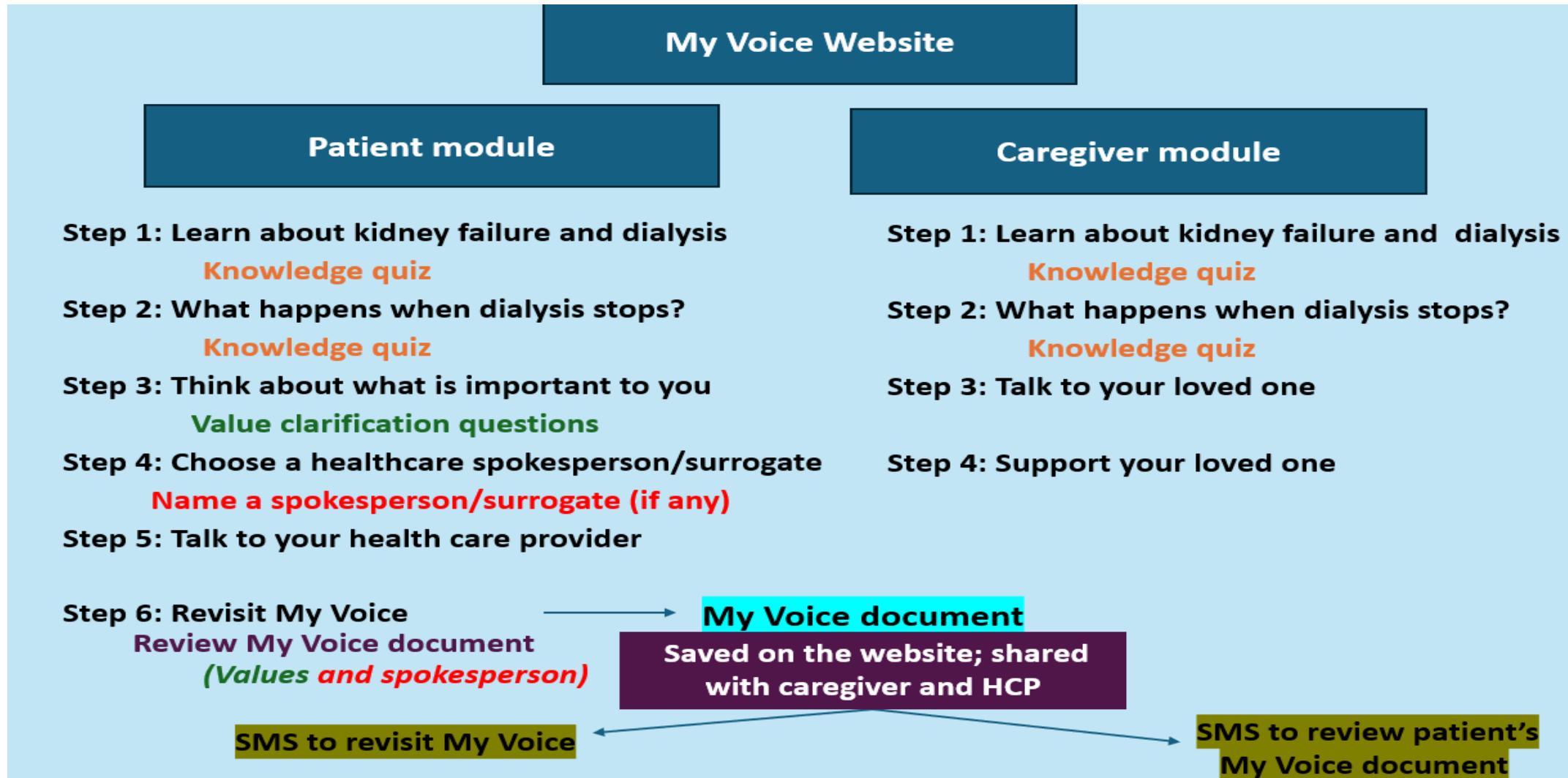
Development Process

- User centered design principles, COM-B model
- Consists of a series of videos, value-clarification exercise (VCE) and knowledge quizzes
- Initial prototype - Patient and caregiver modules in two languages (English & Mandarin)
- Iterative feedback and suggestions helped refine website

Usability and acceptability testing

- Iterative feedback through qualitative interviews, audio recorded, transcribed and thematically analyzed in *N Vivo 11*
- Surveys collected System usability score (SUS)¹ and acceptability ratings²
- 24 participants (9 patients on dialysis, 5 informal caregivers and 10 renal health care providers (nephrologists, nurses, allied health professionals))

My Voice-Renal



Example Video

- https://www.youtube.com/watch?v=JuN78c_CNWA&list=PLqYLXdZ4Z71G35FgBvV4rtpim179WsGul&index=5

Qualitative feedback– Patients/HCPs/caregivers

Theme 1: Supportive information and reassurance

Very useful. It is something that gives extra knowledge. Even if you go to the doctor, the doctor is unable to explain so much but having this thing (website) and videos, at least you can learn something. PT04

I feel like this website is helpful to patients and family, give the caregiver a lot of help, to understand. Otherwise, they will not understand. ...It also gives me more knowledge, so I'm happy I can share what I know with others. CG05

Qualitative feedback— Patients/HCPs/caregivers

Theme 2: Patient-centric tool encouraging ongoing reflection and communication of values and goals of care

Not many people may realise it until answering the questions, "What I want?" ...After answering these, you start asking yourself, "Is this what I want?" (then) you somehow have a clearer picture. And it [My Voice document] helps someone to basically understand their issue ... If you see the doctor, it is just like one kind of talk not very valid, consolidated information. PT05

Because normally when that thing happens, people sometimes get confused what to do. So once the patient has already informed their close relatives, brother-sister, then easy for them to execute whatever needed when the worst comes. CG02

Theme 3: User-friendly, interactive

I think it's very good because for people like me, I like to see videos like to do quizzes. I think it's more interactive compared to just like sitting down and just talking to a person for half an hour to an hour HCP08

Theme 4: Perceived implementation challenges

All the videos are clear. If possible, can play to the all the community....Maybe put up mosques, churches, Chinese temple or community centre. So, that more people can see (videos) PT08

Quantitative feedback– Patients/HCPs/caregivers

Usability

- Mean System Usability Scale (SUS) score 75 (SD: 7.5, range 45 to 97.5)
- 66.7% participants report SUS scores of 68 and above indicates good overall usability

Acceptability

- 80% participants rated website 'good/excellent'
- 92% of participants rated the amount of information 'just right'
- 91% of participants considered useful tool for making future decisions about dialysis
- 96% would recommend to other patients

Summary

- Structured mechanisms to encourage frequent revisits to 'My Voice'
 - Education
 - Systematic phone reminders to revisit
- Tailored specifically to patients with renal failure
 - Educates them about their illness and prepares them for dialysis withdrawal discussions
- Seamlessly integrates caregivers
 - Caregiver module
 - Coaching both patients and caregivers to speak to each other
 - Caregivers receive patient's 'My voice document'
- Inclusion of content in 3 different languages
 - Improves access
- Involved users in development process
- Theory driven
- RCT ongoing with renal failure patients to assess whether My Voice improves quality of Serious Illness Conversations

Thank you

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