Task	Open screens	Enter body weight with NFC	Enter Blood Pressure	Enter Dialysate	View hydration metrics	Interpret hydration metrics	Clinic communication	User incentives
Phase 1	L						L	L
Liked	easy, not complicated	-data automatically entered	-data automatically entered	-data automatically entered	- previous data for BP, UF displayed on the main page	<u>Manual</u> - outlier alert of BW (compared to DW), BP	-easy to contact via LINE and telephone	- data in one place - communicates data to the PD team - manual entry helpfu if problem with NFC
Disliked	-app opens slowly -app sometimes unstable	device is ready to use - long time to transfer data from card	- unreadable/ inaccurate if numbers and rows of the BP machine are not the same size or low light - have reading does not match actual value sometimes	- same issues as entering daily body weight - not distinguish between CAPD and APD PD systems	 previous hydration metrics not included every dialysate volume cycle reported as cycle 1, so UF for each cycle calculated for entire day slow to load program no home button to navigate back to the main page restart required to view previous data graph does not show hydration, dialysis fluid data font too small 	NFC - no interpretation and alert for BW, BP, dialysate volume, BMI <u>Manual</u> - no interpretation of net dialysate gain/loss - no BMI interpretation	- did not receive an instant reply via LINE from PD clinic	- no feedback or reminders for patient to send data - app is sometimes unstable - can't use app in iOS system
Feature rating ^a mean (range)	1.07 (1-2)	1.07 (1-2)	1.07 (1-2)	1.14 (1-2)	1.29 (1-2)	1.07 (1-2)	1 (1)	1.07 (1-2)
Phase 2								
Liked	easy, automatic login, clear, multifunction, optimal detail	easy, data linked automatically, more detailed value (with a decimal point)	- easy to do - data linked automatically	- easy to do -data linked automatically	historical data for BP, PR, dialysate volume displayed on the main page	<u>Manual</u> - interpretation and alert of BMI, PR and BP - can adjust selfcare	 easy to contact via LINE or telephone or in-person can consult on various issues 	- easy, fast - save data in one place - communicate data to the treatment team
Disliked	-takes a long time to open -need to open multiple pages	 no alert indicating that device is ready takes a long time for information to transfer while touching the card too many steps require multiple 	 - unreadable/ inaccurate in low light or if screen has other numbers - must repeat because the numbers do not always match the actual value - no memory in device so need to take photos each time 	-same as entering daily body weight - can only edit data -inflow and outflow times not recorded - can't use in APD - cycles after midnight counted in the next day	-no previous data for BW, BMI and fluid intake included - hard to read, not displayed as table - dialysate volume: combined cycles for CAPD - graphical sometimes incomplete (no UF) - graph scale incorrect	NFC - no interpretation and alert of BW, PR, BP, dialysate volume, BMI <u>Manual</u> - no comparison BW to and UF - interpretation not on same page - no alert with sound, different color or font	none	none
Feature rating ^a mean (range)	1(1)	1.2 (1-2)	1.6 (1-3)	1.2 (1-2)	1 (1)	1.2 (1-2)	1(1)	1.2 (1-2)
Phase 3: CKD-F				T		1		
Liked	-easy -automatic login	- easy - convenient	- easy to enter - easy to fill out - editable	- easy - automatically calculate	-previous data for BP, PR, dialysate volume displayed on the main	- interpretation and alert of BW, BMI, BP - know how health is	- easy to contact via LINE or telephone or in-person	- convenient - easy to carry - data saved together

					- can compare with previous readings -easy to read -can see in one place	- good and instant result update		communicate data to the treatment team - solve problems instantly, may not need to visit hospital
	-take a long time to open especially body weight icon -app freezes often, must close and reopen it -bounce off by itself	<u>Manual</u> -take a long time to open <u>NFC</u> - take a long time -multiple steps -inaccurate data	longer than manual entry - difficult to take photo - the numbers are incomplete when taking photo	<u>Manual</u> - too many fields - app freezes; must close and reopen - option to adjust time - separate APD & CAPD - not calculating UF - can't delete data <u>NFC</u> -multiple steps		- confusing -BMI is interpreted as being overweight. But in the results of the weight interprets as normal weight	none	-need good internet signal -unstable -app freezes often
Feature rating ^a mean (range)	1.6 (1-3)	<u>Manual</u> 1.1 (1-2) <u>NFC</u> 2.3 (1-3)	1.1 (1-2)	<u>Manual</u> 1.1 (1-2) <u>NFC</u> 2.3 (1-3)	1.1 (1-2)	1.1 (1-2)	1 (1)	1.2 (1-3)
Phase 3: Logbo	ok							
Liked	-NA	-easy	- easy - can be inspected and edited	- easy - there are clear fields to fill out	- can see historical data for BP, BW, UF with daily difference -easy to read -doctors can adjust treatment at clinic -can adjust selfcare at home ex. salt restriction, adjust medication	NA	- easy to contact via LINE, phone or in- person - exchange opinions - consult on various issues	 easy to see/read familiar with it keep as evidence and memory do not need internet/cellular can't be hacked some suggest using both book and app
Disliked	-NA	- inconvenient when logbook not available or paper runs out - small letters - need to do	- inconvenient	 inconvenient takes a long time need to calculate UF tables provided have unnecessary fields must record the start stop times beginning end of each cycle must separate cycles and days by yourself 	- no interpretation - difficult to read because of the large numbers and multiple fields	NA	-sometimes difficult to contact via telephone because phone is busy -no private group in LINE -have to wait at clinic visit	-inconvenient to carry -want to stop using the book if there's an app that can replace the book -some feel that it's redundant if using both book and app
Feature rating ^a	NA	1.4 (1-2)	1.4 (1-3)	1.8 (1-3)	1.7 (1-3)	NA	1.2 (1-3)	1.9 (1-3)

*Feature rating scale: 1= Good, 2=Neutral, 3=Not good

Abbreviations:

BP- blood pressure

BW- body weight DW- dry weight

DW- dry weight

NA – not applicable

NFC – Near Field Communication

UF- ultrafiltration volume