Multimedia Appendix 2

Questionnaires and surveys designed to asses participants data.

2.1.Questionnaire designed to perform prospective face-to-face interviews to heart transplant recipients. Including sociodemographic and clinical data, but also technology use and willingness

Has the patient signed the informed consent? Yes Has the patient fulfilled the inclusion criteria? Yes	Interview date by MG: __/__/___ Prospective review of the patient EHR: __/__/___
Sociodemographic and clinical variables	

Patient Hospital's code: _____
Date of birth: __/__/___
Gender
      Male
      Female
      Other
Weight: __ kilograms
Height: __ meters
	Date of the heart transplant: __/__/___
	Urgent heart transplant:
	      Yes
	      No
	Heart failure etiology:
	      Congenital
	      Coronary/ischemic
	      Myocarditis
	      Cardiomyopathy
	      Valvular cardiac disease
	      Hypertrophic cardiomyopathy
	      Re-transplant
	      Other

Educational attainment
      No formal education
      Middle school graduate
      High school graduate
      University graduate
	Employment status:
	      Incapacity
	      Retired
	      No previous employment
	      Currently employed

Need or requirement for caregiver
      Yes
      No
	Lives with someone else
	      Yes
	      No

Number of comorbidities (EHR and confirmed by the patient): ___	

Type of comorbidity post-transplant (multiple choice):
      High blood pressure
      Dyslipidemia
      Chronic kidney failure
      Osteopathies and chondroplasties
      Diseases of the nervous system
      Mood and anxiety disorders
	Digestive system diseases or disorders
	Diabetes Mellitus
	Neoplasia
	Arthropathies
	Others: _____
	_____

Total number of drugs prescribed (EHR and confirmed by the patient): ___	
Technology availability, use and acceptance variables	
Number of devices per patient: _____	

Types of devices owned by the patient
      Mobile Phone
      Computer
      Tablet	

Type of patient internet connection on their device:
      3G or 4G connection
      Only connects to the internet using the WIFI
      Does not know/does not answer	

How often does the patient use the technology?
      Often
      Sporadically	

Never

Patient use of the internet for health-related purposes:
      Often
      Sporadically
      Never

Do you think it would be useful to use an app or website developed by your transplant team to improve your home-based management and therapy follow-up?
      Not very useful
      Useful
      Very useful
      Not yet known until the platform is tested

Are you interested in using the mHeart platform by…?
      A mobile app
      The website
      Both (an app and a website)
      Not yet known until the platform is tested

Do you think that you require personal assistance in using the platform?
      Yes
      No
      Not yet known until the platform is tested

EHR, Electronic Health Records

2.2. Survey designed to assess stakeholder agreement on the benefits and barriers associated with mHealth in multimorbid patients with polypharmacy in our catchment area

Dear Respondent,
Thank you very much for accepting our request to participate in this survey. We welcome your honest opinion about the benefits and/or barriers of using an mHealth platform in our catchment area for the follow-up of chronic patients taking multiple medications.
Please tick *Yes* or *No* to indicate whether you agree to the following questions and also state the reasons for your answers or any relevant comments you may wish to share with us.
Please note that you are welcome to add new topics or ideas not initially included.

Please complete the following demographic information:
Date of birth: Gender: Job category: Affiliation:

Do you agree with the following statements about the benefits of mHealth in the catchment area?	
1. Improves knowledge of therapy, management and drug adherence in patients at home. *Comments:*	Yes No
2. Improves the continuity of care and the information flow between providers and levels of care. *Comments:*	Yes No
3. Allows for patients to be empowered to actively intervene in managing their disease and treatment. *Comments:*	Yes No
4. Resolves patient and caregiver queries from home due to 2-way clinical-patient communication. *Comments:*	Yes No
5. Allows detection of symptoms and adverse effects to drugs, thereby improving their management. *Comments:*	Yes No
6. Focuses on health promotion and prevention, reducing the number of acute events. *Comments:*	Yes No
7. Increases the cost-effectiveness of resources by reducing scheduled visits, as well as urgent visits due to decompensations. *Comments:*	Yes No
8. Facilitates innovation in health and documentation of evidence that translates into measurable health outcomes. *Comments:*	Yes No
9. Reduces inequalities in access to the health system due to traveling difficulties or lack of resources. *Comments:*	Yes No
10. Improves patients' experience because of close communication with providers *Comments:*	Yes No
Additional comments or suggestions:	

Do you agree with the following statements on potential mHealth barriers in the catchment area?

1.	Increase in workload for staff. *Comments:*	Yes No
2.	Lack of institutional guidelines for the development and accreditation of mobile applications in healthcare. *Comments:*	Yes No
3.	Risk of not sharing the patient's registered information with other levels of care or with other apps (used to manage other health conditions). *Comments:*	Yes No
4.	Risk of not protecting confidential patient data. *Comments:*	Yes No
5.	Risk of creating inequalities in patient care due to resistance to use technology or the digital divide [51]. *Comments:*	Yes No
6.	Lack of guarantees on the long-term economic sustainability of research projects for innovative technologies and companies developing them. *Comments:*	Yes No
Additional comments or suggestions:		

2.3.Questionnaire sent to Regional Health Authorities and the Hospital's Information Analysis Department

Dear Respondent, Thank you very much for accepting our request to participate in this survey. With the overall aim of automatically integrating the new mHeart® platform with patients' sociodemographic and clinical electronic health records (EHR) and to share the data collected by patients in the tool with health providers across levels of care, it is necessary to consider the resources available in the catchment area. For this purpose, please complete this short survey using your own professional expertise. Thank you very much in advance from the Hospital Scientific Advisory Team in charge of the mHeart system.
1. Taking into account the technological resources available, how would you ensure that sociodemographic, clinical and therapeutic patient data is not being manually entered by the providers in the mHeart® prototype? Response (free text):

2. Regarding the sharing of the data collected by patients in the mHeart® platform with health providers across distinct levels of care:
    a. How could we incorporate patient information collected in the mHeart® platform to the patient's current hospital electronic records (i.e. hospital information system)?
Response (free text):
 	
    b. How could we incorporate patient information collected in the mHeart® platform with the electronic records other existing care levels (e.g. primary care)?
Response (free text):