Effects of Patient Education via Smartphone Messaging Application on Knowledge, Attitude, Self-Care Practice, Quality of Life (KAPQ) And Medication Adherence Among Heart Failure PatientsDuring COVID-19 Pandemic

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Background

Heart failure (HF) is a burdening disease which may lead to deterioration of healthcare-related quality of life (HRQoL), increased risk of hospitalisation and mortality. Previous studies have established association between poor disease knowledge among HF patients andpoor prognosis. An alternative to traditional patient education which could effectively deliver patient education while maintaining social distancing is needed in a time of crisis such as during current coronavirus disease 2019 (COVID-19) pandemic.

Objective

This study was designed to assess the effectiveness of visual-aided HF patient education program conducted via smartphone messaging application on HF-related disease knowledge, attitude, self-care practice, HRQoL (KAPQ) and medication adherence among HF patients.

Methods

A total of 50 adult HF patients who visited outpatient pharmacy for medication supply at a Malaysia district hospital were recruited. Baseline HF-related disease knowledge, attitude, self-care practice, HRQoL (KAPQ) and medication adherence were assessed using previously developed and validated self-administered questionnaires. The patients then received ten picture messages containing important HF-