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Research Article

New Non-Invasive Technologies for Optimal Management of Chronic Heart Failure

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ABSTRACT

In recent years, several technological innovations have become part of the daily lives of patients suffered from chronic diseases. It is the case for chronic heart failure with non-invasive sensors, telemedicine, and artificial intelligence. A review of the literature dedicated to these technologies and tools supports the efficacy of these latter. Mainly, these technologies have shown a beneficial effect on chronic heart failure management with an improvement of: patient ownership of the disease; patient adherence to therapeutic and hygiene-dietary measures; the management of co-morbidities (hypertension, weight, dyslipidemia); and at least, good patient receptivity and accountability. Especially, the emergence of these technologies in the daily lives of these patients suffered from chronic disease, as chronic heart failure, has led to an improvement of the quality of life for patients. Nevertheless, the magnitude of its effects remains to date debatable or to be consolidated, especially with the variation in patients' characteristics, methods of experimentation, and in terms of medical and economic objectives.

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