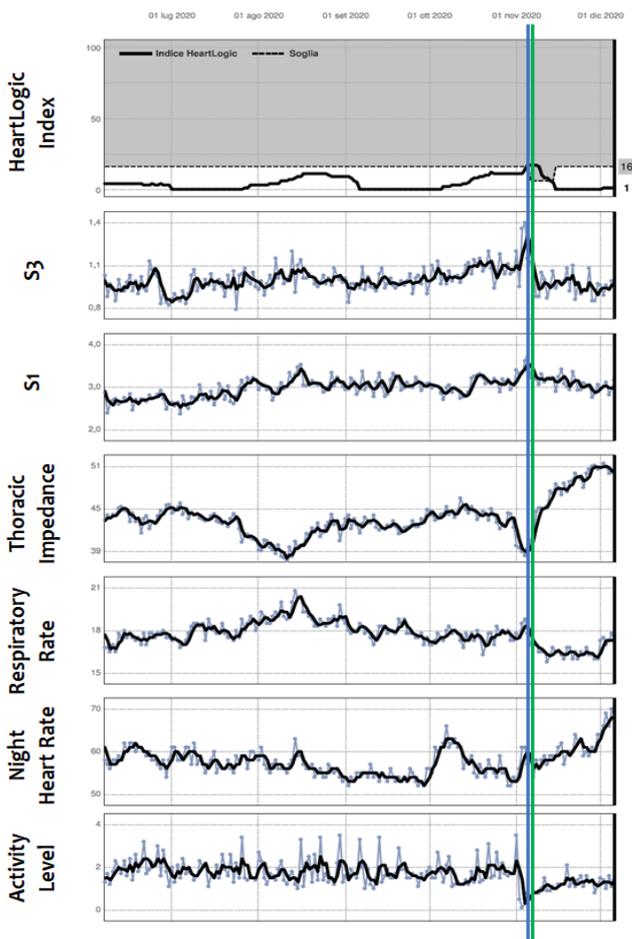


Case Of The Month #1 2021

A 71 years-old man underwent implantation of VIGILANT™ X4 CRT-D on October 2019. The patient was enrolled in LATITUDE™ Remote Monitoring system and HeartLogic™ was activated.



The patient was fine till November 5th (blue line) when an HeartLogic alert was remotely notified to the center. Worsening in some sensor trends have been observed by physician and a phone contact was performed.

The patient reported a weight gain in the last week and moderated dyspnea on exercise. In addition, during a previous hospitalization (November 2nd) for hernia surgery, the patient had received a fluid infusion that may have contributed to fluid overload.

To avoid the hospital access for in-office visit, due to COVID-19 restrictions, an increase in diuretic therapy (green line) was suggested by phone: furosemide therapy was increased from 250 mg/die to 375 mg/die for 7 days.

Few days after, the HeartLogic index started to decrease and mid-November crossed the recovery threshold and reached the zero value.

A further phone contact was performed, the patient reported an improvement in heart failure symptoms.

This case highlights the ability of HeartLogic to detect an impending heart failure event, even in the presence of mild symptoms. HeartLogic allows to implement early actions in order to avoid heart failure symptoms exacerbation.

Moreover, remote monitoring strategy is feasible - minimaxing hospital access that is strongly discouraged in the COVID-19 era.

The analysis of the HeartLogic trend showed that the index increase was mainly driven by a marked increase in third Heart Sound and in Night Heart Rate and by a sudden drop in Thoracic Impedance.

After diuretic change, a sharp increase in Thoracic Impedance and a restoration on third Heart Sound trend have been observed, concomitant with an increase in Activity Level.

The HeartLogic index has proven to be a useful tool to maintain a constant remote monitoring of patient's condition and to early detect worsening in heart failure status.

Courtesy of Ospedale Nostra Signora di Bonaria (San Gavino Monreale, ITALY)

Results from case studies are not necessarily predictive of results in other cases. Results in other cases may vary.

CAUTION: The law restricts these devices to sale by or on the order of a physician. Indications, contraindications, warnings and instructions for use can be found in the product labelling supplied with each device. Information for use only in countries with applicable health authority registrations. This material not intended for use in France.

2019 Copyright © Boston Scientific Corporation or its affiliates. All rights reserved.