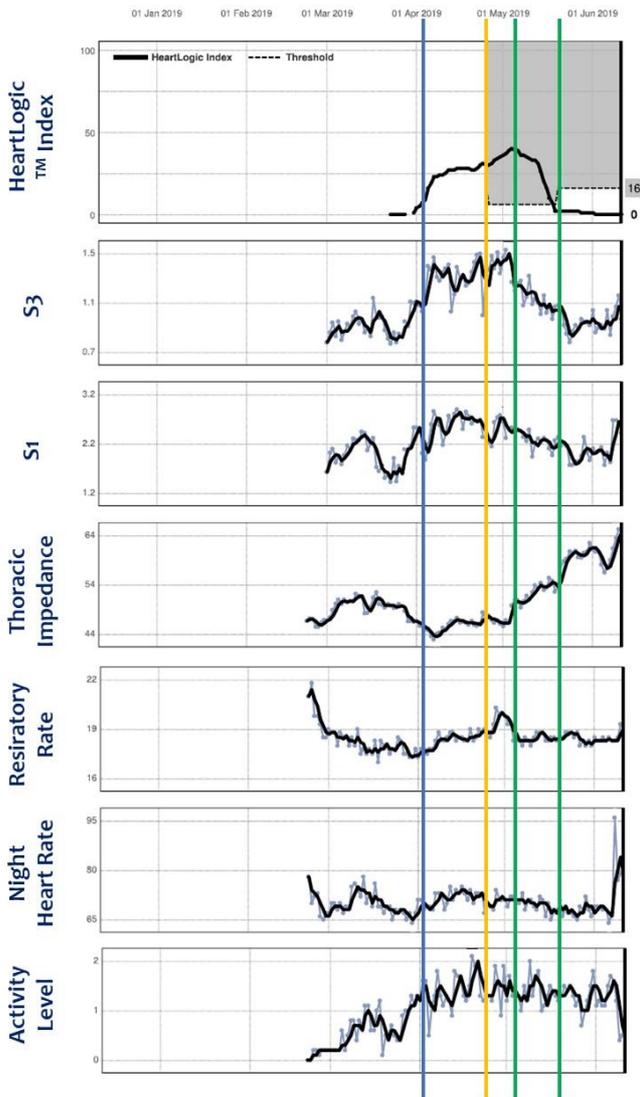


## Case Of The Month #1 2020

A 74 year-old man underwent implantation of Perciva ICD VR for primary prevention of sudden cardiac death on February 21st, 2019



HeartLogic™ was activated on April 25th 2019, and physician became aware that the HeartLogic™ index was above the nominal threshold since the beginning of April.

On April 30th the patient was contacted by phone and he referred no heart failure signs or symptoms, the physician decided to schedule in-office visit for the next week.

During ambulatory visit on May 3rd the patient reported a decrease in diuretic therapy, as suggested by his general practitioner. No peripheral edemas were observed, but the value of NT-proBNP was high (2.079 pg/ml) and a severe mitral valve regurgitation with monophasic transmitral pattern was diagnosed at echocardiographic examination. Following these observations and sensors trends, the physician decided to restore the previous diuretic therapy dosage.

In order to monitor the efficacy of therapy and to assess the patient conditions, a new in-office visit was performed on May 20th. The HeartLogic™ index had just gone below the recovery threshold, no signs or symptoms of congestion were observed, and echocardiographic evaluation showed an improvement in mitral valve regurgitation.

The analysis of the contributing trends at the time of alert showed a marked increase in S3 amplitude and slightly decreased thoracic impedance (probably mitigated by the post-implantation pocket drying). After the diuretic adjustment, a considerable increase in impedance and a decline in S3 were observed.

This is a case of HeartLogic™ alert occurred after reduction of diuretic therapy. The alert occurred before the onset of symptoms and allowed the physician to avoid an acute heart failure event by prompt patient evaluation and therapy restoration. In agreement with the analysis by Gardner et al. (1), this case shows the high prognostic ability of HeartLogic™ index in association with the NT-proBNP value.

Courtesy of Fatebenefratelli Hospital - Naples

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