

Abstract submission to the Semmelweis Symposium 2022

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Dear Tolvaj Máté,

Thank you very much for sending your abstract for the "**Semmelweis Symposium 2022**" that will be held in Budapest, Hungary on November 7-9, 2022.

Abstract details

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Abstract texts

Title of abstract submission form There Is More Than Just Longitudinal Strain: Prognostic Significance of Biventricular Circumferential Mechanics

Abstract text

Global longitudinal strain (GLS) is a predictive parameter of adverse outcomes in cardiac diseases. However, data are scarce concerning the prognostic value of circumferential shortening on long-term mortality. We aimed to assess both left (LV) and right ventricular (RV) GLS and circumferential strain (GCS) using 3D echocardiography (3DE) to determine the prognostic importance of the deterioration of biventricular mechanics.

Patients with various established left-sided cardiac diseases (n=357) were retrospectively identified with a median follow-up of 41 months. All patients underwent 3DE and LV and RV GLS, and GCS were quantified. Patients were divided into 4 groups using the median values of LV GLS and RV GCS. Group 1 had patients with LV GLS and RV GCS above median values; Group 2 had patients with LV GLS below, RV GCS above the median; Group 3 had patients with LV GLS values above, RV GCS below the median. Group 4 had patients with LV GLS and RV GCS below the median. The primary endpoint was all-cause mortality.

55 patients (15%) met the endpoint. Among 3DE-derived functional parameters only RV GCS was an independent predictor using multivariable Cox regression (HR, 1.09 [95% CI, 1.03-1.15], p<0.05). Patients in Group 4 were associated with a more than 5-fold increased risk compared with those in Group 1 (HR, 5.09 [95% CI, 2.39-10.79], p<0.05) and more than 3.5-fold compared with those in Group 2 (HR, 3.57 [95% CI, 1.26-10.12], p<0.05).

Decreased LV and RV GCS were associated with adverse outcomes, emphasizing the importance of assessing biventricular circumferential mechanics. Risk stratification based on our groups showed that reduced RV GCS was associated with an increased risk of long-term mortality even if LV GLS was maintained.

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Your abstract has been forwarded to the scientific committee for evaluation, further information on the acceptance of your abstract will be sent to you until **October 10, 2022**

In the meantime I remain at your disposal for any further queries you may have.

With best regards,

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