RELATIONSHIP BETWEEN BUBBLE TEST OF TTE AND CT DIAGNOSIS OF PFO

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Objectives:

The aim of this study is evaluation the relationship between bubble test of TTE and CT diagnosis of PFO.

Method:

We retrospectively investigated that patients who were examined bubble test of TTE and coronary CT from September 2021 to January 2022 and concordance grade of bubble test and CT diagnosis of PFO. CT diagnosis of PFO is decided that there are over 2 points of criteria(flap in left atrial septum, continuously of contrast between left atrium and atrial septum, continuously of contrast between right atrium and atrial septum).

Result:

Among 133 patients were examined bubble test of TTE, 53 patients were examined coronary CT. One patient could not be analyzed CT, 6 patients had no detailed TTE data. 47 patients were enrolled this study. PPV of CT diagnosis is 72.0%, NPV is 90.9% if cut off of bubble test is grade1(p<0.01), and PPV is 44.0%, NPV is 90.09% if cut off of bubble test is grade3(p<0.01). In case, CT diagnosed PFO and bubble test grade is under 2, patients are significant old, and LAVI is significant high.

Conclusion:

There are significant relevance between bubble test of TTE and CT PFO score.