




**HEART FAILURE
ASSOCIATION OF INDIA**

**QUIZ 4
July 2021**



Quiz of the Month Series

Win attractive prizes.

5000 INR for the Winner

**Last date of submission
August 30th 2021**

Rules of the Quiz.

1. This is an image based Quiz. The image which is related to heart failure will follow a question
2. The participant should give the correct answer and provide explanation for that answer in 50 words.
3. The Quiz Master will select the First person who had given the correct answer with the correct explanation.
4. The decision of the Quiz master is final and no further deliberations in any form are allowed.
8. The winner will get a digital certificate and a Cash Prize of 5000 INR.



The Quiz of July 2021 is by **Dr Deepa S Kumar**

Dr Deepa S Kumar graduated from Medical College Trivandrum and did postgraduation in pediatrics from the same medical college. She completed DM Cardiology program and postdoctoral fellowship In Pediatric Cardiology from Sree Chitra Institute, Trivandrum (SCTIMST). She is also a commonwealth fellow from Birmingham Children's Hospital, UK. She joined as faculty in the department of Cardiology at SCTIMST in 2015 and is currently working as Associate Professor at SCTIMST. She is actively involved in interventional cardiology, teaching and clinical research.

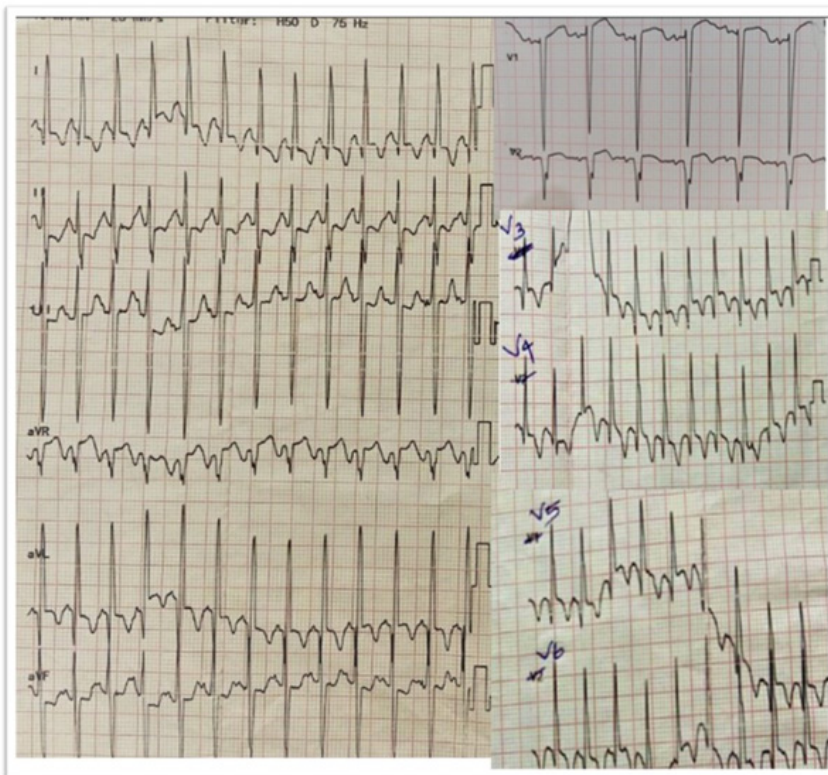
QUIZ 4

JULY 2021

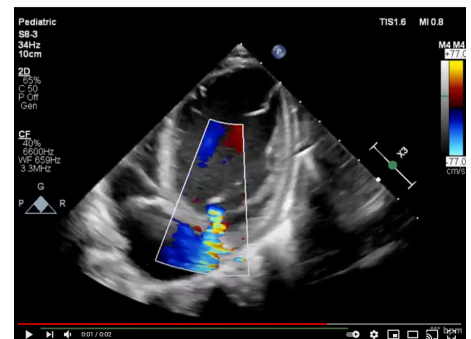
A 5 month old baby presented with heart failure and was diagnosed to be covid positive. Echo showed severe left ventricular dysfunction. He was managed as covid myocarditis and was given IVIG, steroids, carnitine, vitamins and other supportive measures. He was referred to us as there was no improvement in the ventricular function. Focused history revealed symptoms since 6 weeks of life. ECG taken at admission is shown in Figure 1. Echocardiogram was performed which clinched the diagnosis (Video 1,2).

Figure 1: ECG at admission

Figure 1



Video 1

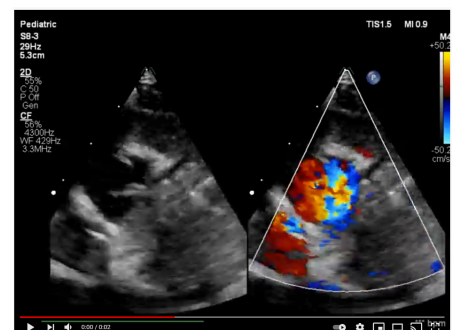


To see the video

[CLICK HERE](#)



Video 2



To see the video

[CLICK HERE](#)



Questions:

A definitive procedure was done and the baby improved. What is the most likely diagnosis and what was the procedure done?

Substantiate your answer with findings from the ECG and echo images (50 words)

The answer should be sent to the email - hfaioffice@gmail.com

The winners will be contacted by our office. Please give your contact telephone number and address in the email along with the answer.

April 2021 - Answer and the Winner



The Quiz of April 2021 is by **Dr Krishna Kumar. M**
Associate professor, SCTIMST, Trivandrum

Dr Krishna Kumar. M graduated from Government Medical College, Trivandrum and had MD in Internal medicine from the same medical school. He got enrolled in the DM Cardiology program of Sree Chitra Tirunal Institute of Medical Sciences and Technology, Trivandrum (SCTIMST) and subsequently completed his postdoctoral fellowship in Cardiac Electrophysiology and Pacing from there. He then did clinical fellowship in Cardiac Electrophysiology from University of Toronto, Canada. Subsequently he joined SCTIMST as faculty in the department of Cardiology in 2014 and is currently working as Associate professor. He is actively involved in teaching and clinical research and has more than 100 PUBMED indexed publications.

A 50-year-old gentleman presented with history of progressive shortness of breath of NYHA class II - III severity, tiredness and bilateral leg swelling of 6 months duration. Physical examination revealed an irregularly irregular pulse of 110 beats per minute and a blood pressure of 100/70 mm of Hg.

A clinical sign is demonstrated in movie 1. A cardiac catheterization was performed after stabilization.

What is your interpretation regarding the clinical sign [Movie 1] and the right atrial wave form obtained on catheterization [Figure: 1]?

Movie 1

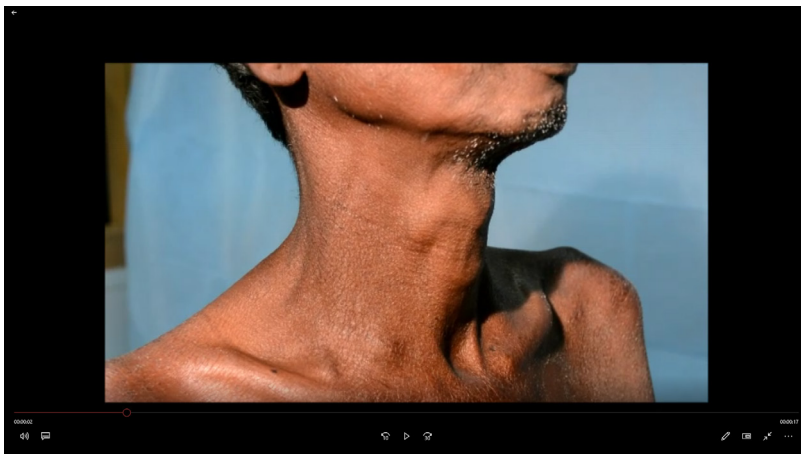
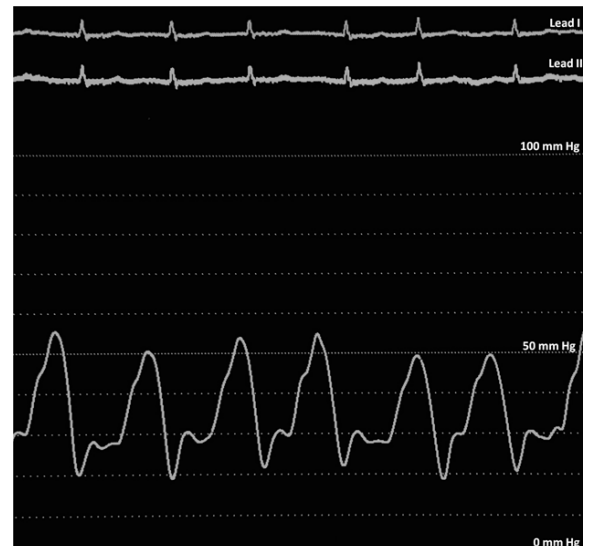


Figure 1



ANSWER TO THE QUIZ:

The movie shows elevated jugular venous pressure with prominent systolic pulsations due to prominent v wave, demonstrable in sitting position (movie 1). A typical head nodding timed with the prominent v wave of the jugular venous pulse is also evident (movie 1). Right heart catheterization (Figure: 1) revealed elevated right atrial mean pressure, absent a wave and prominent v wave with ventricularisation of right atrial trace, all consistent with severe tricuspid regurgitation with atrial fibrillation. The ECG trace provided with the right atrial trace confirms atrial fibrillation.



The winner is Dr. Gourav Bhattacharya

. He graduated from Medical College Kolkata and completed his MD (Medicine) and DM (Cardiology) from SCB Medical College, Cuttack. He is presently attached to Cardiology department Anamoy Super speciality wing of Burdwan Medical College Hospital and Bengal Faith hospital in West Bengal

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Answer our monthly quiz and win prizes

