Name: Bret Blackford | DOB: 7/16/1964 | MRN: E130820300 | PCP: Julie Busch, MD | Legal Name: Michael Bret Blackford

ECHOCARDIOGRAM

Collected on Nov 17, 2021 9:51 AM

We believe...

Results

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Mercy Heart Hospital St. Louis
625 S. New Ballas Road
St Louis, MO 63141
Phone: (314) 251-6000
www.mercy.net/stlouismo
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Transthoracic Echocardiography
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Patient: Blackford, Michael Bret
MRN: E130820300
Study ID: ECH10
Gender: M
DOB: 07/16/1964
Age: 57
Race: CAU
Height 185.4cm
Study Date: 11/17/2021
Weight: 81kg
Access. #: A1121-187103M
Account #: 421841987
BP:
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Referring Physician: Austin, Karen L
Ordering Physician: Austin, Karen L
Sonographer:
Exercise physiologist:
Nurse:
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Indications:
Abnormal ECG.

STUDY CONCLUSIONS:
SUMMARY:
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- Left ventricle: The cavity size was normal. Wall thickness was normal. Global systolic function was normal. The estimated ejection fraction was in the range of 55% to 60%. Left ventricular diastolic function parameters were normal.
- Left atrium: The atrium was normal in size.
- Right ventricle: The cavity size was normal. Systolic function was normal.
- Pulmonary arteries: Systolic pressure was within the normal range.
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Cardiac Anatomy:

LEFT VENTRICLE: The cavity size was normal. Wall thickness was normal. Global systolic function was normal. The estimated ejection fraction was in the range of 55% to 60%. Wall motion was normal; there were no regional wall motion abnormalities. Wall motion score: 1.00. Left ventricular diastolic function parameters were normal.
AORTIC VALVE: Structurally normal valve. Trileaflet. Doppler: Transvalvular velocity was within the normal range. There was no stenosis. No significant regurgitation. The LVOT to aortic valve VTI ratio is 0.84. The valve area by the velocity-time integral method is 2.6cm^2. The valve area index by the velocity-time integral method is 1.28cm^2/m^2. The ratio of LVOT to aortic valve peak velocity is 0.91. The valve area by the peak velocity method is 2.9cm^2. The valve area index by the peak velocity method is 1.4cm^2/m^2. The mean systolic gradient is 4mm Hg. The peak systolic gradient is 8mm Hg.
AORTA: Aortic root: The aortic root was normal in size.
MITRAL VALVE: Structurally normal valve. Doppler: Transvalvular velocity was within the normal range. There is no evidence for stenosis. Trivial regurgitation.
LEFT ATRIUM: The atrium was normal in size.
RIGHT VENTRICLE: The cavity size was normal. Systolic function was normal.
PULMONIC VALVE: Structurally normal valve. Doppler: No significant regurgitation. The mean systolic gradient is 2mm Hg. The peak systolic gradient is 4mm Hg.
TRICUSPID VALVE: Structurally normal valve. Doppler: Mild regurgitation.
PULMONARY ARTERY: Systolic pressure was within the normal range.
RIGHT ATRIUM: The atrium was normal in size.
PERICARDIUM: There was no pericardial effusion.
Systemic veins:
Inferior vena cava: The vessel was normal in size.

Measurements
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Left ventricle Value Ref
EDD, LAX (L) 3.6 cm 4.2 - 5.8
EDD/bsa, LAX (L) 1.8 cm/m^2 2.2 - 3.0
EDD, LAX chord (N) 4.7 cm 4.2 - 5.8
ESD, LAX chord (N) 3.6 cm 2.5 - 4.0
PW, ED (H) 1.3 cm 0.6 - 1.0
SV 68 ml ---
SV/bsa 33 ml/m^2 ---
EDV, 2-p (N) 110 ml 62 - 150
ESV, 2-p (N) 48 ml 21 - 61
EF, 2-p (N) 56 % 52 - 72
SV, 2-p 62 ml ---
EDV/bsa, 2-p (N) 54 ml/m^2 34 - 74
ESV/bsa, 2-p (N) 23 ml/m^2 11 - 31

SV/bsa, 2-p 30.2 ml/m^2 ---------
E', lat ann, TDI (L) 9.9 cm/sec >=10.0
E/e', lat ann, TDI 6 ---------
E', med ann, TDI (N) 8.1 cm/sec >=7.0
E/e', med ann, TDI 7 ---------
E', avg, TDI 9.0 cm/sec ---------
E/e', avg, TDI (N) 6 <=14

LVOT Value Ref
Diam, S 2.0 cm ---------
Area 3.1 cm^2 ---------
Peak vel, S 1.28 m/sec ---------
VTI, S 21.8 cm ---------

Ventricular septum Value Ref
IVS, ED (H) 1.3 cm 0.6 - 1.0

Right ventricle Value Ref
Pressure, S 30 mm Hg ---------

RVOT Value Ref
Peak grad, S 2 mm Hg ---------

Left atrium Value Ref
AP dim, ES (L) 2.8 cm 3.0 - 4.0
AP dim index (L) 1.4 cm/m^2 1.5 - 2.3
Vol, ES, 2-p 30 ml ---------
Vol/bsa, ES, 2-p (L) 15 ml/m^2 16 - 34

Aortic valve Value Ref
Peak v, S 1.4 m/sec ---------
VTI, S 26.1 cm ---------
Mean grad, S 4 mm Hg ---------
Peak grad, S 8 mm Hg ---------
LVOT/AV, VTI ratio 0.84 ---------
AVA, VTI 2.6 cm^2 ---------
AVA/bsa, VTI 1.28 cm^2/m^2 ---------

Mitral valve Value Ref
Peak E 0.56 m/sec ---------
Peak A 0.54 m/sec ---------
Decel time 215 ms ---------
Peak E/A ratio 1 ---------

Pulmonic valve Value Ref
Peak v, S 0.96 m/sec ---------
Mean grad, S 2 mm Hg ---------
Peak grad, S 4 mm Hg ---------

Tricuspid valve Value Ref
TR peak v (N) 2.2 m/sec <=2.8
Peak RV-RA grad, S 20 mm Hg ---------

Aortic root Value Ref
Root diam, S 3.1 cm ---------

Ascending aorta Value Ref
AAo AP diam, S 2.8 cm ---------
AAo AP diam/bsa, S 1.4 cm/m^2 ---------
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Legend:
(L) and (H) mark values outside specified reference range.
(N) marks values inside specified reference range.

Procedure data:
Procedure information: Transthoracic echocardiography. Scanning was performed from the parasternal, apical, and subcostal acoustic windows.
Transthoracic echocardiography. Complete 2D, complete spectral Doppler, and color Doppler. Birthdate: Patient birthdate: 07/16/1964. Age: Patient is 57yr old. Sex: Birth gender: male. Height: 185.4cm. 73in. Weight: 81kg. 178.2lb. Body mass index: 23.6kg/m^2. Body surface area: 2.05m^2. Study date: Study date: 11/17/2021. Study time: 09:51 AM. Prepared and Electronically Authenticated
Deryk L Mcdowell MD
2021-11-17T11:07:35

EJECTION FRACTION

Value
EF:

Ordering provider: Dr. K Austin
Reading physician: Dr. D McDowell
Study date: Nov 17, 2021 10:23 AM
Collection date: Nov 17, 2021 9:51 AM
Result date: Nov 17, 2021 11:07 AM
Result status: Final

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