Fick Cardiac Output

Patient Information

Name: John Doe

Date of Birth: 01/15/1972

Medical Record Number: 123456

Date of Assessment: 11/15/2023

Referring Physician: Dr. Kerry Smith

Clinical History

Mr. Doe is a 51-year-old male with a history of congestive heart failure (CHF) and recent exacerbation of symptoms, including increased fatigue and shortness of breath on exertion. He is currently on diuretic and beta-blocker therapy.

Procedure

1. **Preparation**
   Mr. Doe is in stable condition for the assessment.

   The procedure was explained to him, addressing his concerns about the blood sampling.

   Necessary equipment, including syringes, blood collection kits, and a pulse oximeter, is prepared.
2. **Patient Positioning:**
   Mr. Doe is positioned in a supine position for the assessment.

3. **Blood Sampling**
   Arterial blood is collected from the radial artery.

   Venous blood is obtained from the central venous line.

   The blood samples are collected simultaneously.

4. **Analysis**:
   The blood samples are analyzed for oxygen content and related parameters, including PaO2, hemoglobin (Hb), and oxygen saturation (SaO2).

5. **Fick Cardiac Output Calculation**
   Utilizing the Fick equation: CO = VO2 / (Arterial Oxygen Content - Venous Oxygen Content).

   The calculated Fick Cardiac Output is 4.2 L/min.

6. **Recording and Interpretation**
   The Fick Cardiac Output of 4.2 L/min indicates reduced cardiac output, consistent with Mr. Doe's history of CHF.

   The result is discussed with the healthcare team, and further evaluation and treatment adjustments are planned.

Post-Procedure

Mr. Doe was monitored for adverse events or complications, and none were observed.

The Fick Cardiac Output measurement was documented in his medical record.

Results and clinical implications were communicated with Dr. Smith for further management.

Follow-up

Follow-up assessments, including echocardiography and medication adjustments, are scheduled to optimize Mr. Doe's cardiac care.