

## NR603 iHuman Week 4 Plan of Care

### Diagnostic Tests:

1) 12-lead electrocardiogram (ECG)

Interpretation: Normal sinus rhythm; no acute changes, voltage criteria for left ventricular hypertrophy (LVH)

2) Arterial Blood Gas (ABG)

PaO<sub>2</sub> slightly low at 82mmHg; Base excess abnormal at -1.6mEq/L; Otherwise normal

3) Brain natriuretic peptide (BNP),

blood Result: 0.042 ug/L - normal

4) Cardiac nuclear stress test,

Lexiscan Interpretation: Normal

5) Cardiac stress test: not done

6) Complete blood count (CBC),

blood All normal

7) Coronary angiogram (catheterization)

Interpretation: Severe aortic stenosis (AS) with valve area <0.6cm<sup>2</sup>; coronary arteries are patent without significant stenosis

8) Echocardiogram, transesophageal

(TEE) Interpretation:

Left ventricle - Moderate left ventricular hypertrophy; ejection fraction 70%; no regional wall motion abnormalities, abnormal diastolic performance, elevated left ventricular end diastolic pressure

Left atrium - elevated left atrial volume

Mitral valve - Normal aortic valve; trileaflet with severe sclerocalcific changes, mean gradient consistent with severe aortic stenosis, estimated valve area consistent with severe/critical aortic stenosis 0.65cm<sup>2</sup>

9) Echocardiogram, transthoracic (TTE)

Interpretation: same as interpretation for

TTE

10) Holter cardiac

monitor Interpretation:

Normal

11) Pulmonary Function Test (PFT)

Interpretation: Total lung capacity 110% height and weight adjusted norms; forced expiratory volume in one second (FEV<sub>1</sub>), forced vital capacity (FVC) 90% of height and weight adjusted norms, residual volume 115% of height and weight adjusted norms, diffusion capacity for carbon monoxide 95% of height and weight adjusted norms.

### Medications:

Medical therapy has been shown to not significantly affect disease progression. Surgical treatment is actually recommended. An aortic valve replacement (AVR) is recommended for patients with symptomatic aortic stenosis, even if the symptoms are mild (Pujari & Agasthi, 2023).

Prior to surgery, medications can be used to treat symptoms.

1) 20mg Lasix PO daily