**MRI Report**

**Clinical details**

|  |  |
| --- | --- |
| **Age:** | {age} |
| **Gender:** | {genderState} |
| **Reason:** | {reason} |
| **Protocol:** | {protocol} |
| **Quality:** | Adequate |

**Findings**

**Lungs and mediastinum:** No significant extra-cardiac abnormalities. Normal cardiac arterial and venous connections. Normal aortic root size. Normal ascending aorta size. No pericardial effusion present.

**Left ventricle:** The left ventricle {lvedviStatus} according to indexed volume, with {lvm} (max wall thickness 30 mm). There is {lvefStatus}.

**Right ventricle:** The right ventricle {rvedviStatus} according to indexed volume. There is {rvefStatus}.

**Atria:** Left atrium is {laviStatus} according to indexed volume ({lavi} ml/m²; {lad} mm diameter). Right atrium is {raviStatus} according to indexed volume ({raArea} cm²; {ravi} ml/m²).

**Valves:**

Aortic valve is trileaflet with good leaflet excursion. There is no aortic stenosis; (peak flow velocity of 1.5 cm/s). There is no aortic regurgitation (phase flow AR severity 21 ml; regurgitant fraction 30 %).

Mitral valve leaflets are thin with good excursion. There is mild mitral regurgitation. [Mitral regurgitant volume is 45 ml; regurgitant fraction 33 %].

Tricuspid valve leaflets are thin with good excursion; there is no tricuspid regurgitation.

**Resting first pass perfusion imaging:** no evidence of hypoperfusion.

**Early gadolinium imaging:** no intra-cardiac masses noted.

**Late gadolinium imaging:** No myocardial fibrosis.

**T1 mapping:**

**Native base:** myocardial T1 {preMyo}ms, blood pool {preBlood}ms.

**Post-contrast base:** myocardial T1 {postMyo}ms, blood pool {postBlood}ms.

**Native mid:** myocardial T1 {preMyo}ms, blood pool {preBlood}ms.

**Post-contrast mid:** myocardial T1 {postMyo}ms, blood pool {postBlood}ms.

ECV is {ecv}%, based on haematocrit of {hctMyo}.

**T2:** no evidence of myocardial oedema.

**Quantitative data summary:** Height {height} cm, weight {weight} kg, BSA {bsa} m²

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| --- | --- |
| **LVEDV :** | {lvedv} ml [{lvedv\_min} – {lvedv\_max} ml] |
| **LVEDVi :** | {lvedvi} ml/m² [{lvedvi\_min} – {lvedvi\_max} ml/m²] |
| **LVESV :** | {lvesv} ml [{lvesv\_min} – {lvesv\_max} ml] |
| **LVESVi :** | {lvesvi} ml/m² [{lvesvi\_min} – {lvesvi\_max} ml/m²] |
| **LVSV :** | {lvsv} ml [{lvsv\_min} – {lvsv\_max} ml] |
| **LVEF :** | {lvef} % [{lvef\_min} – {lvef\_max} %] |
| **LVM :** | {lvm} g [{lvm\_min} – {lvm\_max} g] |
| **LVMi :** | {lvmi} g/m² [{lvmi\_min} – {lvmi\_max} g/m²] |
| **RVEDV :** | {rvedv} ml [{rvedv\_min} – {rvedv\_max} ml] |
| **RVEDVi :** | {rvedvi} ml/m² [{rvedvi\_min} – {rvedvi\_max} ml/m²] |
| **RVSV :** | {rvsv} ml [{rvsv\_min} – {rvsv\_max} ml] |
| **RVESV:** | {rvesv} ml [{rvesv\_min} – {rvesv\_max} ml] |
| **RVESVi :** | {rvesvi} ml/m² [{rvesvi\_min} – {rvesvi\_max} ml/m²] |
| **RVEF :** | {rvef} % [{rvef\_min} – {rvef\_max} %] |

**Viability assessment mapped to the 16-segment left ventricular segmentation model**

**Wall motion score:**

0 = normal, 1 = mildly hypokinetic, 2 = severe hypokinetic, 3 = akinetic, 4 = dyskinetic, 5 = aneurysmal.

**Scoring for the transmural extent of LGE:**

0 = 0%, 1 = 1-25%, 2 = 26-50%, 3 = 51-75%, 4 = 76-100%.

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| --- | --- | --- |
| **Basal** | **Wall Motion** | **Scar** |
| Anterior | {wallMotion1} | {scar1} |
| Anterolateral | {wallMotion2} | {scar2} |
| Inferolateral | {wallMotion3} | {scar3} |
| Inferior | {wallMotion4} | {scar4} |
| Inferoseptal | {wallMotion5} | {scar5} |
| Anteroseptal | {wallMotion6} | {scar6} |

|  |  |  |
| --- | --- | --- |
| **Mid** | **Wall Motion** | **Scar** |
| Anterior | {wallMotion7} | {scar7} |
| Anterolateral | {wallMotion8} | {scar8} |
| Inferolateral | {wallMotion9} | {scar9} |
| Inferior | {wallMotion10} | {scar10} |
| Inferoseptal | {wallMotion11} | {scar11} |
| Anteroseptal | {wallMotion12} | {scar12} |

|  |  |  |
| --- | --- | --- |
| **Apex** | **Wall Motion** | **Scar** |
| Anterior | {wallMotion13} | {scar13} |
| Lateral | {wallMotion14} | {scar14} |
| Inferior | {wallMotion15} | {scar15} |
| Septal | {wallMotion16} | {scar16} |

**Conclusions**: {conclusion}

**Comment :** {comment}

**Reported by**

Dr {doctorFirstName} {doctorLastName}, {doctorTitle}