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| Board Meeting: | 6 December 2018 | GJF RGB WITHOUT STRAPLINE |
| Subject: | Direct replacement of existing Cardiac Magnetic Resonance Imaging (MRI) scanner as part of the planned medical equipment replacement programme |
| Recommendation: | Board members are asked to:  |  |  | | --- | --- | | Discuss and Note |  | | Discuss and Approve | X | | Note for Information only |  | | |
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## 1 Background

The Golden Jubilee National Hospital (GJNH) has an ongoing commitment to Scottish Government to provide over 14,000 MRI examinations yearly to support the waiting times in eight NHSScotland Health Boards. There is also an additional ongoing commitment to support cardiac imaging for National and Regional Services, and also Research activity. Cardiac imaging accounts for an additional 1,900 examinations per year, and is this is provided by a dedicated cardiac MRI scanner within the Radiology Department.

The Golden Jubilee Foundation has a phased approach to replacement of medical imaging equipment based on an expected lifecycle projection of 10 years.

The Cardiac MRI Scanner is now in its 11th year of service, and is vital in its function to continue supporting patient services at local and national levels. The system has been flagged for replacement under the organisation’s planned equipment replacement programme. The replacement appears on the 2018/19 prioritised medical equipment plan as a result of a risk assessment process carried out by the Medical Equipment Group (MEG).

**2 Analysis**

GJNH currently has four installed static scanners, MRI 1 (general scanner), MRI 2 (cardiac scanner) both located on level two within the Radiology department, MRI 3 (general scanner with cardiac capabilities), and MRI 4 (general scanner) are located within the MRI Suite on level one. All are running to staffed capacity with potential to further maximise asset usage over a seven day working week. MRI 3 delivers back-up for cardiac scans in the unexpected failure of MRI 2.

Requests for cardiac MRI scans currently sit significantly beyond available capacity. This under-capacity should be viewed in the context of an ongoing year on year national increase in demand in the region of 19%.

The replacement will deliver a modern, high specification Cardiac MRI, capable of meeting the complex demands of the specialised National Cardiac MRI service, providing improved diagnostic visualisation.

An options appraisal was carried out assessing the benefits and risks associated with the following two options:

Option 1 Do nothing/minimum

Option 2 Replace the primary Cardiac MRI scanner (MRI 2)

Option 2 demonstrates significant benefits due to the advances in cardiac MRI technology, supporting the complex demands of the Cardiac MRI service delivering high end imaging to three national services, regional cardiac services and GJNH inpatients.

The risk management plan will describe how the associated risks can be mitigated.

Given the significant benefits, lower risk and financial assessment option 2 is the preferred option.

**3 Funding**

The capital costs have been funded by the planned medical equipment replacement programme. The financial assessment describes the capital and revenue impact of the preferred option.



**4 Recommendation**

Board Members are asked to approve the business case to purchase a replacement cardiac MRI scanner.

**June Rogers**

**Director of Operations**

**27 November 2018**

**(Jennifer Gilchrist, Acting Head of Radiology)**